

MATERIAL SAFETY DATA SHEET

CT-545

PRODUCT NAME: CT-545

PAGE NUMBER: 1 OF 4

MSDS NUMBER: 082205CT545

PRODUCT CODE: Cooling Water Treatment

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

MSDS DATE: 08/22/2005



Advanced Chemical Technology, Inc.
 8728 Utica Avenue, Rancho Cucamonga, CA 91730 USA
 Phone (800) 527-9607 / Fax (909) 980-9366
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HEALTH	2 Hazardous
FLAMMABILITY	0 Will Not Burn
REACTIVITY	0 Stable
Personal Protection	C

1. IDENTIFICATION

Chemical Name: CT-545
Chemical Family: Cooling Water Treatment
DOT Information: Corrosive

2. PHYSICAL DATA

Appearance: Light Yellow Liquid	Vapor Pressure: 23.75mmHg
Odor Characteristics: Mild, Sweet	Boiling Point: 212 F
pH: 13.5	Freezing Point: ND
Viscosity: ND	Evaporation Rate (Water = 1): 1
Specific Gravity (Water = 1): 1.2	Solubility in Water: Soluble
Vapor Density (Air = 1): 0.62 @ 68 F	

3. INGREDIENTS - HAZARDOUS

Components	CAS No.	OSHA PEL	ACGIH TLV	Approx %
Potassium Hydroxide	1310-58-3	2 mg/M3	2 mg/M3	11
Sodium Molybdate	7631-95-0	5 mg/M3	5 mg/M3	7
Hydroxyethylidene diphosphonic acid	2809-21-4	NE	NE	5
Sodium tolyltriazole	64665-57-2	NE	NE	3

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: Mist causes irritation to upper respiratory passages
Skin Contact: Causes skin irritation. A single prolonged exposure is unlikely 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
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: None

7. REACTIVITY DATA

Stability: Stable

Incompatibility: Strong oxidizers, acids, alkalis and halogen compounds

Hazardous Combustion or Decomposition Products: Carbon monoxide, ammonia, and oxides of nitrogen

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 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

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. Rinse container before disposal

11. REGULATORY INFORMATION

RCRA Status: D002

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

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 contains 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 know carcinogens and/or reproductive toxins

12. TOXICOLOGICAL INFORMATION

Acute Data: NE

Reproductive / Teratology Data NE

13. ECOLOGICAL INFORMATION

Fate in the Environment: Ingredients will degrade in water over a 60 day period with exposure to oxygen and sunlight

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

Proper Shipping Name: Corrosive liquid n.o.s., (Potassium hydroxide)

Hazard Class: 8

Hazard Identification Number: UN 1760

Packaging Group: II

Transport Label: Corrosive



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16. OTHER INFORMATION

A. Suggested NFPA Rating:			
<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Specific Hazard</u>
1	0	0	ALK
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. Suggested HMIS Rating:			
<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Protective Equipment Guide</u>
1	0	0	C
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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