

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

DISTRIBUTOR'S NAME:	ADENA TECHNOLOGIES	REGULAR TELEPHONE NO: EMERGENCY TELEPHONE NO. ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT INVOLVING CHEMICAL	(423) 698-7777 CHEMTREC (800) 424-9300
ADDRESS:	101 Technology Lane, Export, PA 15632		
TRADE NAME:	ADENA 5125		
SYNONYMS:	Cooling Tower Corrosion and scale inhibitor		
SHIPPING NAME, DOT:	UN3266, Corrosive Liquids, basic, inorganic, N.O.S., (contains potassium hydroxide), 8, PG III		
HMS:	Health = 2, Flammability = 0, Reactivity = 0, PPE = C		

II. INGREDIENTS

MATERIAL OR COMPONENT	CAS NO.	%	HAZARD DATA
Acrylic Copolymer	Trade Secret	3-5	Irritant
Potassium Hydroxide	1310-58-3	5-8	Corrosive
Sodium molybdate dihydrate	10102-40-2	1-2	Irritant
Potassium Hydroxide	1310-58-3	5-8	Corrosive
Carboxylate/Sulfonate/Nonionic terpolymer (Acumer 3100)	Trade secret	8-10	Irritant
Polymeric Dispersants	Blend	15-20	Irritant
2-Phosphono-1,2,4-butane tricarboxylic acid	37971-36-1	3-5	CORROSIVE
Sodium Tolytriazole	64665-57-2	0.8-1.0	CORROSIVE

III. PHYSICAL DATA

BOILING POINT, 760 MM HG, °F:	212° F	MELTING POINT, °F:	Not Applicable
SPECIFIC GRAVITY (H ₂ O = 1):	1.14-1.15	VAPOR PRESSURE:	Not Established
VAPOR DENSITY (AIR = 1):	Not Established	SOLUBILITY IN H ₂ O % BY WT:	100%
% VOLATILES BY VOL:	Approx. 50% (water)	EVAPORATION RATE (BUTYL ACETATE = 1):	Not Established
APPEARANCE AND ODOR:	Yellow liquid with slight ammonia odor	pH (AS IS): pH (1% soln.):	11.5-12.5

IV. FIRE AND EXPLOSION DATA

FLASH POINT: (TEST METHOD)	Not flammable	AUTOIGNITION TEMPERATURE:	N/A
FLAMMABLE LIMITS IN AIR, % BY VOLUME: Not Known	LOWER:	N/A	Upper: N/A
EXTINGUISHING MEDIA	CO ₂ , dry chemical, foam, water fog.		

SPECIAL FIRE FIGHTING PROCEDURES:	NONE
UNUSUAL FIRE AND EXPLOSION HAZARD:	Not applicable

V. HEALTH HAZARD INFORMATION

HEALTH HAZARD DATA	HAZARD CLASSIFICATION	BASIS FOR CLASSIFICATION	SOURCE
ROUTES OF EXPOSURE INHALATION:	Irritant		
SKIN CONTACT:	Corrosive		
SKIN ABSORPTION:	Irritant		
EYE CONTACT:	Corrosive		
INGESTION:	Irritant		
EFFECTS OF OVEREXPOSURE: ACUTE OVEREXPOSURE:	Corrosive to the skin, eyes, and mucous membranes		
CHRONIC OVEREXPOSURE:	Continued exposure to neat product can cause permanent tissue damage		
EYES:	Wash eyes immediately with large amounts of water, lifting the lower and upper eyelids occasionally. Get medical attention immediately.		
SKIN:	Wash thoroughly. Seek medical attention if irritation occurs.		
INHALATION:	Move person to fresh air. If breathing stops, administer artificial respiration. Get medical help immediately.		
INGESTION:	If person is conscious, give large quantities of water to dilute stomach contents. Get medical attention immediately. DO NOT INDUCE VOMITING unless directed to do so by a physician.		
NOTES TO PHYSICIAN:	Contains a high pH blend of polyacrylic and phosphonic-acid based polymers.		

VI. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY:	None known.
INCOMPATIBILITY:	Strong oxidizing agents, mineral acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	No data established
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:	None

VII. DISPOSAL, SPILL OR LEAK PROCEDURES

AQUATIC TOXICITY (E.G. 96 HR. TLM):	<i>Ceriodaphnia dubia</i> : 190.2 mg/L, LC50, 24 hr Fathead minnow 868 mg/l, LC50, 96 hr
WASTE DISPOSAL METHOD:	Discharge to sewer or contact waste disposal firm. Must comply with federal, state, and local regulation.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:	If material can not be salvaged, a method of disposal is in a landfill in accordance with all local, state, and federal regulations.
NEUTRALIZING CHEMICALS:	May be diluted with water

VIII. SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS:	Use ventilation or exhaust.
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT:	Wear protective clothing
EYE:	Chemical goggles that are dust and splash proof.
GLOVES:	Rubber gloves
OTHER CLOTHING AND EQUIPMENT:	Safety shower and eye wash fountain should be located in the immediate work area.

IX. SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS:	Use good industrial hygiene practices.	
OTHER HANDLING AND STORAGE REQUIREMENTS:	Wash thoroughly after handling. Do not get in eyes, on skin or clothing. Do not ingest or inhale. Keep container closed. Store away from strong oxidizers, heat, sparks, and open flame.	
ADDITIONAL REGULATORY CONCERNS:	None	
FEDERAL FDA:	None	
EPA:	SARA-Section 302 (Extremely Hazardous Substance list): (yes or no)	NO
	SARA-Section 311/312 (Hazardous Categories):	Acute Health
	SARA-Section 313 (Toxic Chemical list): (yes or no)	NO
TSCA:	IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION IN THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES?	All components are listed on TSCA Inventory
OSHA	None	
OTHER:	None	
STATE:	None	
Prepared by:	Dean Norwood	
Title:	Chemist	
Revision date:	3/21/13	

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