



MATERIAL SAFETY DATA SHEET

SECTION 1 - MANUFACTURER OR SUPPLIER DATA

MSDS NUMBER 9000

MANUFACTURER'S NAME & MAILING ADDRESS Aqua Systems, Inc. P.O. BOX 397 Arroyo Grande, CA 93421	PREPARED BY Kenneth Alexander	SIGNATURE TITLE Safety Supervisor	DATE 4/27/2001
EMERGENCY TELEPHONE NO. (24 HOUR SERVICE) 805-489-9250	PRODUCT INFORMATION TELEPHONE NO. (8-5 PST) 805-489-9250 or 805-648-7007		

SECTION 2 - IDENTITY OF MATERIAL

PRODUCT NAME AQUA QUAT- 10 %			
PRODUCT DESCRIPTION Disinfectant Solvent- Quaternary Ammonia Blend		FORMULA Proprietary	CHEMICAL FAMILY
REGULATED IDENTIFICATION	DOT PROPER SHIPPING NAME		
	SHIPPING ID NUMBER None	HAZARD CLASS None	

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT 210	SPECIFIC GRAVITY .0995-1.005	PHYSICAL FORM Liquid	COLOR Clear
VAPOR PRESSURE (mm Hg) >1	MELTING POINT N/A	SOLUBILITY IN WATER Complete	SCENT Odorless
VAPOR DENSITY (AIR = 1) >1	EVAPORATION RATE (BUTYL ACETATE = 1) 1	pH 2500 ppm SOLUTION	pH CONCENTRATE 7.0-8.0
OTHER			

SECTION 4 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (CHEMICAL NAME: COMMON NAME)	OSHA PEL	ACGIH TLV	CAS	PERCENT
Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chl	NL	NL	68391 01 5	5%
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chlorides	NL	NL	68956 79 6	5%
NFPA RATING:				
HMIS RATING:				
CARCINOGENICITY: NOT CARCINOGENIC				
HEAVY WATER BASE - NOT TOXIC				

(CONTINUED ON REVERSE SIDE)

SECTION 5 - SAFE USAGE DATA

PROTECTIVE EQUIPMENT TYPES	EYES SAFETY/CHEMICAL SPLASH GOGGLES.	
	RESPIRATORY None.	GLOVES PROTECTIVE CUFF OR GAUNTLET TYPE
	OTHER WEAR FULL-COVER PROTECTIVE CLOTHING TO PREVENT PROLONGED CONTACT.	
VENTILATION	GENERAL MECHANICAL KEEP LEVELS BELOW RECOMMENDED TLV.	
	LOCAL EXHAUST NOT ORDINARILY NEEDED. AVOID INHALATION OF MISTS.	
PRECAUTIONS	HANDLING & STORAGE FOLLOW ALL LABEL DIRECTIONS. AVOID INHALATION OF MISTS. STORE BELOW 100	
	DEGREES. KEEP OUT OF REACH OF CHILDREN.	

SECTION 6 - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE	INHALATION MISTS MAY CAUSE IRRITATION TO NOSE, THROAT, AND MUCOUS MEMBRANES.	
	INGESTION MAY CAUSE VOMITING. MUSCLE PARALYSIS MAY AFFECT ABILITY TO BREATHE.	
	SKIN & EYES Mild to severe irritation depending upon the degree of exposure. EYES: Corrosive. Causes eye burns. May cause temporary or permanent vision loss or blindness.	
	ACUTE & CHRONIC Irritation to skin and respiratory system. Causes eye burns. Permanent eye damage may result.	
ROUTES OF ENTRY	<input checked="" type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYES <input checked="" type="checkbox"/> INHALATION	TARGET ORGANS Eyes, Circulatory and Gastrointestinal Systems

SECTION 7 - PHYSICAL HAZARD DATA

FLAMMABILITY	LEL = N/A UEL = N/A	FLASH POINT N/A	METHOD USED NA
STABILITY	<input checked="" type="checkbox"/> STABLE	CONDITIONS TO AVOID Mix only with water. Do not store in high temperatures(Above 100 degrees)	
	<input type="checkbox"/> UNSTABLE	HAZARDOUS DECOMPOSITION PRODUCTS Mixing with incompatible material may produce sulfur dioxide, ammonia vapor.	
HAZARDOUS POLYMERIZATION	<input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR	CONDITIONS TO AVOID	
INCOMPATIBILITY	MATERIALS TO AVOID Anionic surfactants, reducing agents, sodium hypochlorite, and other strong alkalis.		

SECTION 8 - EMERGENCY RESPONSE DATA

FIRE	EXTINGUISHING MEDIA WATER, DRY CHEMICAL, CO ₂ , ALCOHOL FREON.	
	SPECIAL PROCEDURES EVACUATE AREA OF UNPROTECTED AND UNNECESSARY PERSONNEL.	
	UNUSUAL HAZARDS NONE	
FIRST AID MEASURES	INGESTION: DO NOT INDUCE VOMITING: IF PATIENT IS CONSCIOUS, GIVE A LOT OF WATER.	
	SKIN: REMOVE CONTAMINATED CLOTHES. WASH 15 MINUTES WITH RUNNING WATER.	
	EYES: WASH 15 MINUTES WITH RUNNING WATER.	
SPILLS	STEPS TO BE TAKEN Wear proper protective equipment. Stop leak if possible. Dike large spills. Soak with sand	
RO =	or other non-combustible inert absorbent. Flush area with water and follow with clean up.	
	Keep combustibles away! Be careful not to slip.	
	USE IN VENTILATED AREA. KEEP OUT OF REACH OF CHILDREN.	

THE DATA IN THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR PROCESS. THE DATA CONTAINED IS BELIEVED TO BE ACCURATE. HOWEVER, SINCE USE CONDITIONS VARY AND ARE OUTSIDE OUR CONTROL, AQUA SYSTEMS, INC. MAKES NO WARRANTIES, EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY FOR FAILURE TO FOLLOW PRODUCT USE DIRECTION AND SAFETY PRECAUTIONS.