



MATERIAL SAFETY DATA SHEET

SECTION 1 - MANUFACTURER OR SUPPLIER DATA

MSDS NUMBER

7028

MANUFACTURER'S NAME & MAILING ADDRESS Aqua Systems, Inc. P.O. BOX 397 Arroyo Grande, CA 93421 EMERGENCY TELEPHONE NO. (24 HOUR SERVICE) 800-535-5053	PREPARED BY Dana A. Nafziger TITLE Safety Supervisor PRODUCT INFORMATION TELEPHONE NO. (8-5 PST) 805-489-9250	SIGNATURE DATE 2/27/1997
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SECTION 2 - IDENTITY OF MATERIAL

PRODUCT NAME Aqua CA		
PRODUCT DESCRIPTION Citric Acid	FORMULA Proprietary	CHEMICAL FAMILY
REGULATED IDENTIFICATION	DOT PROPER SHIPPING NAME NA	
	SHIPPING ID NUMBER	HAZARD CLASS NA

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT 219F	SPECIFIC GRAVITY 1.24	PHYSICAL FORM Liquid	COLOR Clear / Pale yellow
VAPOR PRESSURE (Air = 1) NA	MELTING POINT NA	SOLUBILITY IN WATER Complete	SCENT Bland Odor
VAPOR DENSITY (AIR = 1) NA	EVAPORATION RATE (Water = 1) NA	pH 2500 ppm SOLUTION NA	pH CONCENTRATE 0.79
OTHER Volatile : NA			

SECTION 4 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (CHEMICAL NAME: COMMON NAME)	OSHA PEL	ACGIH TLV	CAS Number	PERCENT
Citric Acid	NE	NE	77929	45-55
NFPA RATING: Health : Slight; Fire : Minimal; Reactivity : Slight				
HMIS RATING:				
CARCINOGENICITY: None				

(CONTINUED ON REVERSE SIDE)

SECTION 5 - SAFE USAGE DATA

PROTECTIVE EQUIPMENT TYPES	EYES Goggles or Face Shield.	
	RESPIRATORY None normally required.	GLOVES Gloves.
	OTHER As needed to avoid contact with skin and eyes. Eyewash Fountain.	
VENTILATION	GENERAL MECHANICAL Maintain adequate ventilation.	
	LOCAL EXHAUST Maintain adequate ventilation.	
PRECAUTIONS	HANDLING & STORAGE Store in cool, dry, well ventilated areas. Keep containers tightly closed when not in use. Avoid	
	contact with skin and eyes.	

SECTION 6 - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE	INHALATION None known.	
	INGESTION Can cause gastrointestinal upset, vomiting, and nausea.	
	SKIN Can cause irritation.	
	EYES Can cause irritation.	
ROUTES OF ENTRY <input type="checkbox"/> INGESTION <input type="checkbox"/> SKIN <input type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYES <input type="checkbox"/> INHALATION TARGET ORGANS		

SECTION 7 - PHYSICAL HAZARD DATA

FLAMMABILITY	LEL = NA UEL = NA		FLASH POINT Non-Combustible	METHOD USED C.C.C.
STABILITY	<input checked="" type="checkbox"/> STABLE		CONDITIONS TO AVOID None currently known.	
	<input type="checkbox"/> UNSTABLE		HAZARDOUS DECOMPOSITION PRODUCTS None currently known.	
HAZARDOUS POLYMERIZATION	<input type="checkbox"/> MAY OCCUR		CONDITIONS TO AVOID	
	<input checked="" type="checkbox"/> WILL NOT OCCUR		None currently known.	
INCOMPATIBILITY	MATERIALS TO AVOID alkaline			

SECTION 8 - EMERGENCY RESPONSE DATA

FIRE	EXTINGUISHING MEDIA Use any.	
	SPECIAL PROCEDURES None Known.	
	UNUSUAL HAZARDS None Known.	
FIRST AID MEASURES	INGESTION: If conscious, give several glasses of water. Contact physician immediately.	
	SKIN: Wash exposed area with soap and water for 15 minutes. If irritation persists, contact a physician.	
	EYES: Flush eyes with cool water for 15 minutes. If irritation persists, contact a physician.	
SPILLS	STEPS TO BE TAKEN Dike liquid and recover as much as possible into drums. Flush the residue to the drains with plenty	
RO =	of water if permitted by local, state and federal government. Not an EPA Hazardous waste. Dispose	
	of in an approved landfill or facility. Comply with all local, state, and federal regulations.	

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.