



MATERIAL SAFETY DATA SHEET

SECTION 1 - MANUFACTURER OR SUPPLIER DATA

MSDS NUMBER

MANUFACTURER'S NAME & MAILING ADDRESS Aqua Systems, Inc. P.O. BOX 397 Arroyo Grande, CA 93421	PREPARED BY Dana A. Nafziger	SIGNATURE
EMERGENCY TELEPHONE NO. (24 HOUR SERVICE) 800-535-5053	TITLE Safety Supervisor	
PRODUCT INFORMATION TELEPHONE NO. (8-5 PST) 805-489-9250		DATE 02/18/00

SECTION 2 - IDENTITY OF MATERIAL

PRODUCT NAME AQUA CLEAN SPECIAL DISH DETERGENT		
PRODUCT DESCRIPTION HARD WATER DISHWASHING DETERGENT	FORMULA Proprietary	CHEMICAL FAMILY Alkaline Detergent Blend
REGULATED IDENTIFICATION	DOT PROPER SHIPPING NAME Potassium Hydroxide Solution	
	SHIPPING ID NUMBER UN 1814	HAZARD CLASS Corrosive, PGII, UN 1814

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT 270-292F	SPECIFIC GRAVITY 1.5	PHYSICAL FORM Liquid	COLOR Light Red
VAPOR PRESSURE (mm Hg) 2	MELTING POINT 20F	SOLUBILITY IN WATER Complete	SCENT Slight NAOH Odor
VAPOR DENSITY (AIR = 1) 1	EVAPORATION RATE (BUTYL ACETATE = 1) NA	pH 2500 ppm SOLUTION 13.5	pH CONCENTRATE 14
OTHER NA			

SECTION 4 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (CHEMICAL NAME: COMMON NAME)	OSHA PEL	ACGIH TLV	CAS NUMBER	PERCENT
Potassium Hydroxide	2mg/M3	2mg/M3	1310-58-3	NA
Tetra Potassium Pyro Phosphate	NA?	2mg/M3	1310-73-2	NA
Sodium Metasilicate	2mg/M3	2mg/M3	6834-92-0	NA

NFPA RATING: **HEALTH: SERIOUS FIRE: INSIGNIFICANT REACTIVITY: SLIGHT**

HMIS RATING: **0**

CARCINOGENICITY: **NONE**

(CONTINUED ON REVERSE SIDE)

SECTION 5 - SAFE USAGE DATA

PROTECTIVE EQUIPMENT TYPES	EYES Goggles or Face Shield.	GLOVES Neoprene or butyl rubber gloves.
	RESPIRATORY If mist, Respirator w/Organic vapor Cartridge.	
	OTHER Apron, Safety Shoes and Full Length Clothing.	
VENTILATION	GENERAL MECHANICAL General Room ventilation	
	LOCAL EXHAUST Use local mechanical ventilation or open window, doors and/or vents.	
PRECAUTIONS	HANDLING & STORAGE Store in cool, dry, well ventilated areas. Keep containers tightly closed when not in use.	
	Wash thoroughly after handling.	

SECTION 6 - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE	INHALATION May cause irritation. Prolonged exposure may cause severe damage to the respiratory tract and lungs.
	INGESTION Can cause irritation and burn to mouth, throat, and digestive tract. Large quantities may result in death.
	SKIN & EYES Will burn skin and eyes. If left untreated will cause severe damage to skin and cornea.
	ACUTE & CHRONIC Permanent and severe eye, skin, digestive tract, or respiratory tract damage may result.
ROUTES OF ENTRY	<input checked="" type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN <input type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYES <input checked="" type="checkbox"/> INHALATION TARGET ORGANS EYES, SKIN AND LUNGS

SECTION 7 - PHYSICAL HAZARD DATA

FLAMMABILITY	LEL = NA UEL = NA	FLASH POINT NONE	METHOD USED NA
STABILITY	<input checked="" type="checkbox"/> STABLE	CONDITIONS TO AVOID Excessive heat or cold.	
	<input type="checkbox"/> UNSTABLE	HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen release from contact w/aluminum, zinc, or tin. Carbon monoxide from carbonates.	
HAZARDOUS POLYMERIZATION	<input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR	CONDITIONS TO AVOID NA	
INCOMPATIBILITY	MATERIALS TO AVOID Acids, Oxidizers, Aluminum, Tin, Zinc, Brass and Bronze.		

SECTION 8 - EMERGENCY RESPONSE DATA

FIRE	EXTINGUISHING MEDIA Use fire extinguishing agents suitable for source of fire.
	SPECIAL PROCEDURES Not combustible. Self contained breathing apparatus and full protective clothing.
	UNUSUAL HAZARDS may be corrosive and may foam.
FIRST AID MEASURES	INGESTION: Do not induce vomiting. Drink large quantities of water and get immediate medical attention.
	SKIN: 0
	EYES: 0
SPILLS	STEPS TO BE TAKEN 0
RO =	1,000 lbs.

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.