

** MATERIAL SAFETY DATA SHEET **

MEDICAL EMERGENCY ONLY, 24-HOUR SERVICE: (800) 328-0026
PURITAN SERVICES INC., MARIETTA, GA. 30067 (800) 275-1999/(770) 916-0151

DATE OF ISSUE: 06/22/99
Product Info: 800-275-8914

1.0 IDENTIFICATION

1.1 **PRODUCT NAME:** QUINTET HT MACHINE DETERGENT
1.2 **PRODUCT TYPE:** Liquid Chlorinated High Alkaline Dishmachine Detergent
1.3 **HAZARD RATING:** Health: **3** Fire: **0** Reactivity: **1**

++ Substances Subject to SARA 313 Reporting Are Indicated by "#" ++

2.0 HAZARDOUS COMPONENTS

		CAS No.	%	PEL	TWA (mg/m3)
2.1	Potassium hydroxide (caustic potash)	1310-58-3	9	No	2C
2.2	Potassium hypochlorite	7778-66-7	1-5	*	*
	*PEL for chlorine = 3 C; ACGIH TWA = 1.5; ACGIH STEL = 3				
2.3	Chelating agents	mixture	1-5	No	No
2.4	Sodium phosphate, tribasic	7758-29-4	10	No	No

STEL = ACGIH short term exp. liquid (15 min)
TWA = ACGIH 8 hour average

PEL = OSHA 8 Hour Average in Air
C = ceiling limit in air, do not exceed

3.0 PHYSICAL DATA

3.1 **Appearance:** Clear light yellow liquid; chlorine odor.
3.2 **Solubility in Water:** Mixes with water in all proportions.
3.3 **pH:** 12.0 (100%)
3.4 **Initial Boiling Point:** >212 deg F / 100 deg C
3.5 **Specific Gravity:** 1.290 @ 68 deg F / 20 deg C

4.0 FIRE AND EXPLOSION DATA

4.1 **Special Fire Hazards:** High temperatures may generate hazardous decomposition products including chlorine gas.
4.2 **Fire Fighting Methods:** Product does not support combustion. Keep water from entering containers; generates significant heat.

5.0 REACTIVITY DATA

5.1 **Stability:** Stable under normal condition of use and handling.
5.2 **Conditions to Avoid:** Reacts vigorously with acids. Reacts with soft metals i.e. aluminum or zinc, producing flammable hydrogen gas. Mixing with acids or ammonia releases harmful gases.

6.0 SPILL OR LEAK PROCEDURES

USE PROPER PROTECTIVE EQUIPMENT

6.1 **Cleanup:** Dike or dam large spill. Pump to containers or soak up on inert absorbent. Flush residue to sanitary sewer.
6.2 **Waste Disposal:** Consult state/local authorities for limits on chemical waste disposal. Unused product is RCRA Corrosive (D002).

7.0 HEALTH HAZARD DATA

7.1 Effects of Overexposure to Concentrate:

7.1.1 **Eyes:** CAUSES CHEMICAL BURNS. May cause blindness.
++ Immediate water flushing is vital in case of eye contact ++
7.1.2 **Skin:** CAUSES CHEMICAL BURNS. Harmful contact may not cause immediate pain.
7.1.3 **If Swallowed:** HARMFUL OR FATAL. Cause chemical burns of mouth throat and stomach.
7.1.4 **If Inhaled:** Causes irritation to bronchitis or pneumonia depending on exposure. People with lung problems may be more affected.

8.0 FIRST AID

8.1 **Eyes:** Flush at once with cool running water. Remove contact lenses and continue flushing for 15 minutes, holding eyelids apart so as to rinse entire eye. CALL A PHYSICIAN IMMEDIATELY.
8.2 **Skin:** Immediately flush skin with plenty of cool running water for at least 15 minutes while removing contaminated clothing and shoes. Discard or wash before reuse.
8.3 **If Swallowed:** Rinse mouth at once; then drink 1 or 2 large glasses of water. DO NOT induce vomiting. NEVER give anything by mouth to an unconscious person.
8.4 **If Inhaled:** Immediately move to fresh air.

IMMEDIATELY CALL THE MEDICAL EMERGENCY NUMBER, 1-800-328-0026,
A POISON CONTROL CENTER, OR A PHYSICIAN

9.0 PROTECTIVE MEASURES

9.1 FOR CONCENTRATE:

9.1.1 **Eyes:** Wear chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
9.1.2 **Skin:** Wear any industrial rubber gloves, synthetic apron, other protective equipment as necessary to prevent skin contact.
9.1.3 **Respiratory:** Avoid breathing mists or vapors of this product.
9.1.4 **Note:** Access to emergency eyewash and shower is recommended.

10.0 ADDITIONAL INFORMATION/PRECAUTIONS

10.1 **Purpose of 12/1/2000 issue:** Add line 1.3; QC and editorial update. Replaces January 29, 1997 issue.

KEEP OUT OF REACH OF CHILDREN

The above information is believed to be correct with respect to the formula used to manufacture the product. As data, standards and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**