

**MATERIAL SAFETY DATA SHEET**

**SECTION I. IDENTIFICATION OF PRODUCT**

Name: Liqua Sheen  
Identity: Chlorinated Machine Dishwashing    **MSDS Number:** 0962    **Date:** 08/19/2005    **Supersedes:** 11/19/2004  
**TOXICITY:** 2    **FIRE:** 0    **REACTIVITY:** 0    **PROTECTION:** C

**SECTION II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Name	CAS Number	PEL	TLV	%
Potassium Hydroxide	1310-58-3	C 2 mg/m <sup>3</sup>	2 mg/ 3	
Sodium Hypochlorite	7681-52-9	NE	NE	

**SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>Boiling Point:</b> 212F	<b>Specific Gravity:</b> 1.360	<b>Vapor Pressure (mm Hg.):</b> ND	<b>Melting Point:</b> ND
<b>Vapor Density (Air = 1):</b> 1	<b>Evaporation (H<sub>2</sub>O = 1):</b> 1	<b>Water Solubility:</b> Complete	<b>pH @ 77°F:</b> 14+ 14+
			<b>VOCgm/L:</b> 0

**Appearance and Odor:** Clear liquid, Bleach odor

**SECTION IV. FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point (TCC):</b> None	<b>% LEL:</b> ND	<b>% UEL:</b> ND	<b>Flammable Limits:</b> NA
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**Extinguishing Media:** Water fog, foam, carbon dioxide. Cool containers exposed to flames with water from side.

**Special Fire Fighting Procedures:** Prevent breathing vapors. Wear SCBA and protective clothing.

**Unusual Fire and Explosion:** Not combustible but its oxidizing properties reacting with reducing agents may cause ignition.

**SECTION V. HEALTH HAZARD DATA**

**Route(s) of Entry:** INHALATION? Yes    EYES? Yes    SKIN? Yes    INGESTION? Yes

**(Acute) Health Hazards:**

**Eyes:** Corrosive. Causes eye burns. May cause permanent damage

**Skin:** Corrosive. Causes skin burns. It may not produce an immediate burning sensation upon skin contact, delaying the awareness of worker that contact has occurred.

**Ingestion:** May cause severe internal injury characterized by mouth and stomach pain.

**Inhalation:** May produce irritation of eyes, nose, or upper respiratory tract with coughing and sore throat.

**(Chronic) Health Hazards:** None Known

**Signs and Symptoms of Exposure:**

**Eyes:** Severe eye irritation and/or burns may occur

**Skin:** Can cause severe irritation and/or burns characterized by redness, swelling and scab formation.

**Ingestion:** Irritation and/or burn can occur to the entire gastrointestinal tract.

**Inhalation:** Can cause irritation to the nose, mouth, throat, and lungs.

**Medical Conditions Generally Aggravated by Exposure:** Pre-existing disorder at contact site

**Emergency First Aid Procedures:**

**Eyes:** Immediately flush eyes with large amounts of water for about 15 minutes. Hold eyelids apart during the flushing to ensure thorough rinsing.

**Skin:** Immediately flush all affected areas with large amount of running water for at least 15 minutes. Remove and discard contaminated clothing and shoes. Get medical attention.

**Ingestion:** Do not induce vomiting. If conscious, give large quantity of water. Do not give anything by mouth to an unconscious person. Obtain medical attention.

**Inhalation:** Remove to fresh air. If irritation persists, obtain medical attention.

## SECTION VI. TOXICITY DATA

Carcinogenicity: NTP? No IARC No OSHA REGULATED? No

## SECTION VII. REACTIVITY DATA

Stability: Stable Hazardous Polymerization Will Not Occur

Incompatibility (Materials to Avoid): Strong acids

Hazardous Decomposition Byproducts: Chlorine and oxides of chlorine

## SECTION VIII. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled:

**Small Spills:** Contain material with dike or barrier. Do not let material enter sewers

**Large Spills:** Mop up. Neutralize traces with dilute inorganic acids. Material can be removed with vacuum truck.

**Disposal:** Meet Federal, State & Local Requirements

**Handling and Storage:** Store in cool, dry well ventilated area. Keep container tightly closed when not in use.

**Other Precautions:** Keep out of reach of children. FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY.

## SECTION IX. CONTROL MEASURES

**Respiratory Protection:** Ammonia air purifying respirator

**Ventilation:** Adequate to meet occupational exposure limits.

**Local Exhaust:** Not normally indicated unless mist is generated

**Mechanical (General):** If needed to maintain levels below PEL

**Protective Gloves:** Rubber, vinyl, impervious

**Eye Protection:** Face Shield or goggles

**Other Protective Clothing or Equipment:** Long pants, sleeves, apron

**Work/Hygienic Practices:** The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because use conditions will vary, depending upon customer applications, specific safe handling procedures should be developed by persons knowledgeable of the intended use conditions and equipment.

## SECTION X. DOT INFORMATION

Corrosive Liquids, n.o.s. (Potassium Hydroxide, Sodium Hypochlorite),8, UN1760,PGII

## SECTION XI. MISCELLANEOUS INFORMATION

**SARA 313:** No NOTE: Consumer Commodity -ORMD in 1L (0.3 gallon) or less

**Notice:** All information, recommendations, and suggestions appearing herein concerning this product are based upon data obtained from the manufacturer and/or recognized technical sources; however, manufacturer makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product.

NA - Not Available

NE – Not Established

ND – Not Determined