

Supplied By:



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# Material Safety Data Sheet

**EMERGENCY PHONE:  
1-800-535-5053**

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

## Section 1: Product Identification

**Product Name:** LIQUIWARE

**Product Number:** K201

**Product Use:** Alkaline Chlorinated Dishwashing Detergent

**DOT Shipping Name:** Corrosive Liquid, basic, inorganic, N.O.S.

(Potassium Hydroxide/Sodium Hypochlorite), 8, UN3266, PG II

## Section 2: Hazardous Ingredient Information

Hazard Chemical Identity	CAS No.	ACGIH/TLV
Potassium Hydroxide	1310-58-3	2 mg/m3
Sodium Hypochlorite	7681-52-9	2 mg/m3
Tetrapotassium Pyrophosphate (60%)	7320-34-5	N.A.

\*\*This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the emergency planning and community right-to-know act of 1988.

## Section 3: Physical Data

**Color:** Yellow    **Odor:** Chlorine    **Physical State:** Liquid  
**Solubility in Water:** Complete    **Boiling Point:** Similar to water  
**Vapor Pressure:** Similar to water    **Specific Gravity:** 1.247%  
**Volatile, By Volume:** None  
**Vapor Density in Air (Air=1):** Similar to water  
**Evaporation Rate:** Similar to water

## Section 4: Fire and Explosion Hazard Data

**Flash Point (Method Used):** None  
**Flammable Limits in Air:** N.A.  
**Extinguishing Media:** N.A.  
**Unusual Fire and Explosion Hazards:** Firefighters should wear self-contained positive breathing apparatus, and avoid skin contact.

## Section 5: Reactivity Data

**Chemical Stability:** Stable  
**Conditions to Avoid:** Mixture with acid or incompatible materials can cause splattering and release of large amounts of heat.  
**Incompatibility (Materials to avoid):** Acids, chlorinated hydrocarbons, chlorine dioxide, phosphorus, potassium persulfate, and tetrahydrofuran.  
**Hazardous Decomposition Products:** Chlorine gas  
**Hazardous Polymerization:** Will not occur

## Section 6: Toxicological Properties

**Exposure Limits:**                      **ACGIH**                      **OSHA**  
Potassium Hydroxide                      2mg/m3 Ceiling                      None  
**Medical Conditions Aggravated by Exposure:** No known medical conditions aggravated by exposure.

### Acute Toxicity:

**Eyes:** Major potential hazard. Liquid in the eye can cause severe destruction and blindness. These effects can occur rapidly affecting all parts of the eye. Mist can cause irritation with high concentrations causing destructive burns.  
**Skin:** Major potential hazard. Contact with the skin can cause severe burns with deep ulceration's. Contact with solution or mist can cause multiple burns with temporary loss of hair at burn site. Solutions may not cause immediate pain or irritation upon skin contact. Prolonged or repeated contact with dilute solutions may cause drying and cracking of skin and possible skin damage.  
**Ingestion:** Ingestion can cause severe burning and pain in mouth, throat, esophagus and stomach. Severe scarring of the throat can occur after swallowing. Death can result from ingestion.  
**Inhalation:** Inhalation of solution mist can cause mild irritation at 2mg/m3. More severe burns and tissue damage of the upper respiratory tract can occur at higher concentrations.

**Chronic Toxicity:** Chronic skin contact may cause dermatitis. This product does not contain any materials listed on the IARC, OSHA, or NPT carcinogen lists.

## Section 7: Preventative & Control Measures

**Respiratory Protection:** For levels that exceed or are likely to exceed 2 mg/m3 use approved high efficiency particulate filter with full face piece or self-contained breathing apparatus. Follow any applicable respirator use standards and regulations.  
**Ventilation:** As necessary to maintain concentration in air below 2mg/m3 at all times.  
**Skin Protection:** Wear neoprene, PVC, or rubber gloves.  
**Eye Protection:** Wear safety glasses or splashproof chemical goggles.  
**Hygiene:** Avoid contact with skin. Do not eat, drink or smoke in work area. Wash hands prior to eating, drinking, or using restroom. Any protective clothing which becomes contaminated should be thoroughly cleaned before reuse.  
**Other Control Measures:** Safety shower and eye wash should be located in work area.  
**STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:** Small amounts of product can be diluted and rinsed down the drain with water. Larger amounts should be contained and recovered. Clean up personnel should follow all safety precautions during clean up.  
**Waste Disposal:** Dispose of in accordance with all local, state and federal regulations.

## Section 8: Emergency First Aid Procedures

### First Aid Notes to Physician:

**Eyes:** Wash eyes immediately with large amounts of water (preferably eye wash fountain), lifting the upper and lower eyelids and rotating eyeball. Continue washing for a minimum of 15 minutes.  
**Get medical attention immediately.**  
**Skin:** Remove contaminated clothing immediately and wash skin thoroughly for a minimum of 15 minutes with large quantities of water (preferably a safety shower). **Get medical attention immediately.**  
**Ingestion:** If person is conscious, give large quantities of water to dilute product. Do NOT induce vomiting. **Get medical attention immediately.**  
**Inhalation:** Move person to fresh air. If breathing stops, administer artificial respiration. **Get medical attention immediately.**

## Section : Storage and Handling Precautions

KEEP FROM FREEZING  
Store in closed, properly labeled containers.  
DO NOT remove or deface labels.  
Use of this product should be limited to properly trained individuals.

## Section 9: Preparation Information

**Prepared By:** Regulatory Affairs Department  
**Phone:** 812-336-4817  
**Date of Preparation:** September, 2004

The above information is believed to be accurate with respect to the formula used to manufacture this product. As data, standards and regulations change and conditions of use and handling are beyond our control. **NO WARRANTY** expressed or implied is made as to the completeness of continuing of this information.

# Liqui Ware

## Technical Data Sheet



**Liquid  
Warewash  
Detergent**



**Heavy  
Duty  
Formula**

**Chlorinated  
For  
Stain  
Removal**

**Water  
Conditioner**

### Product Description

**Liqui ware** is a balanced warewashing detergent designed for institutional dishwashers. The alkalinity booster in **Liqui ware** provides good detergency to emulsify grease and food soils. Special water conditioning and soil suspending agents prevent mineral and soil deposits on the dishware and in the machine. Chlorinating agents remove coffee, tea and food stains.

**Liqui ware** has proven to be a very effective and economical machine detergent in difficult conditions. NOT recommended for soft metals.

### Use Directions

For use in electronic dispensing systems. Use a pail wrench to unscrew inner cap. Insert plastic tube labeled "LiquiWare" into 5 gallon bucket. Product will automatically be dispensed into the dish-machine during the wash cycle. LabTek will adjust the concentration to provide optimum results.

### Areas of Use

Designed to be used for institutional mechanical warewashing.

### Safety Precautions

Caution! Harmful if swallowed. Irritating to eyes. Keep out of reach of children. Read label and MSDS thoroughly for complete list of hazards and safety precautions.

### Shipping Classification

Corrosive Liquid, basic, inorganic, N.O.S. (Potassium Hydroxide/Sodium Hypochlorite), 8, UN3266, PG II

### Packaging

5 Gallon Pail  
4-1 Gallon/Case

### Properties

<b>FORM:</b>	Yellow Liquid
<b>pH (1% SOLUTION):</b>	12.2
<b>SPECIFIC GRAVITY:</b>	1.288
<b>FOAM:</b>	None
<b>PRIMARY HAZARD</b>	corrosive to eyes and skin alkaline
<b>COMPOSITION:</b>	builders, sodium hypochlorite, water conditioners, iron chelates.