

**MATERIAL SAFETY DATA SHEET****Uni-Kem Chemicals, Inc.**802 William Leigh Dr.  
Tullytown, PA 19007  
Phone 215-269-1800N.A.=Not Applicable  
Not Est.=Not Established

Prepared by: Regulatory Affairs Department

Date: 03/13/2003

**SECTION 1- GENERAL PRODUCT DATA****Product Name:** DISH MACHINE LIQUID**Product Code:** 4LMDC**HMIS Legend:** 4-Extreme 3-High 2-Moderate 1-Slight 0-Insignificant**HMIS Hazard Code:** Health:1 Flammability:0 Reactivity:3**Chemical Family:** FORMULATED LIQUID DETERGENT**D.O.T. Shipping Name:** Corrosive Liquid, NOS, Contains Sodium Hydroxide, UN 1791,PGII**CHEM-TEL, INC.****24 Hour Emergency Contact 1-800-255-3924****Chemical Strength:** VERY HIGHLY CAUSTIC**Formula:** PROPRIETARY**Hazard Class:** 8**SECTION 2 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS NO.	OSHA PEL	ACGIH	TLV	%
Sodium Hydroxide	1310-73-2	2mg/m3			>15
NJTSR#39201900-5116P					>40
NJTSR#39210900-5048P					<5

Unidentified ingredients are not considered hazardous under the Federal Hazard Communications Standard (29 CFR 1910. 1200)

**SECTION 3 - PHYSICAL DATA****Boiling Point (°F):** 219**Vapor Pressure (mm Hg):** = NA**Appearance:** Free flowing liquid**Specific Gravity:** 1.294**Percent Volatile By Volume:** NA**Evaporation Rate:** = NA**Odor:** pH: 13.9**SECTION 4 - FIRE AND EXPLOSION DATA****Flash Point (F):** NA**Flammable Limits:** Not considered flammable**Unusual Fire & Explosion Hazards:** Not normally considered combustible. Will not burn or sustain combustion.**Special Fire Fighting Procedures:** Protect from irritating mists and corrosive solutions with pressure demand, self-contained respirator and protective clothing.**SECTION 5 - HEALTH HAZARD DATA****Route(s) of Entry:** Inhalation: No Skin: Yes Ingestion: No**Threshold Limit Value:****Effects of Overexposure:** Respiratory irritant. Mists and vapors may be irritating to the skin and eyes. Exposure can cause severe burns. Mists may cause choking sensation. Follow first aid procedures.**Emergency & First Aid Procedures:****Inhalation:** Remove person to fresh air and get medical attention. If not breathing, give artificial respiration and oxygen, if available.**For Skin:** Wash skin for 15-30 minutes and remove contaminated clothing. Seek immediate medical attention.**For Eyes:** Flush eyes with cool water for 15-30 minutes and get immediate medical attention.**If Ingested:** If swallowed, give several cups of water or milk to dilute. Do not induce vomiting. Get medical attention. Do not give anything by mouth to an unconscious person.**Carcinogen:** Not considered carcinogenic by OSHA, NTP, or IARC**SECTION 6 - REACTIVITY DATA****Stability:** Stable**Conditions to Avoid:** Spills and careless handling**Incompatibility:** Acids, aluminum and strong oxidizers**Hazardous Decomposition Products:** None**Hazardous Polymerization:** Will not occur**SECTION 7 - SPILL OR LEAK PROCEDURES****Steps to be taken if material is released or spilled:**

Stop flow of product. Dilute with water and neutralize as required.

Wash away small spills with plenty of water. Avoid skin contact. Absorb large spills.

**Waste disposal method:** Dispose of in accordance with all local, state and federal regulations. Observe all label safeguards until container is cleaned, reconditioned or destroyed.**SECTION 8 - SUGGESTED PROTECTIVE EQUIPMENT****Respiratory Protection:** None usually required**Ventilation:** Adequate general ventilation. Local exhaust for dust or mist.**Protective Gloves:** Rubber or neoprene**Eye Protection:** Chemical goggles or face shield**Other Protective Equipment:** Eye bath and safety shower. Use rubber boots and apron as required.**SECTION 9 - SPECIAL PRECAUTIONS****Precautions to be taken in handling and storage:**

Store at room temperature. Keep from freezing. Keep container closed when not in use. Use adequate ventilation. Avoid contact with skin and eyes or the breathing of mists. Wash thoroughly after use.

**Other Precautions:** Do not take internally. Avoid contamination of food. For industrial use only. Do not mix with anything other than water. Avoid contact with strong oxidizing agents, aluminum and other soft metals.**SECTION 313 SUPPLIER NOTIFICATION**

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

This information must be included in all MSDS's that are copied and distributed for this material.

**NOTICE**

The information contained in this MSDS was obtained from current and reliable sources, however the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy, including the implied warranties of merchantability or fitness for a particular use or method of application. Since the conditions or handling, storage and disposal of this product are beyond the control of this company, it is not responsible for loss, injury and expense arising out of the products improper use.