MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910,1200)

HMIS HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

A = Safety Glasses	**F** = **C** + Dust Mask	**4** = Extreme	Health.... 3
B = **A** + Gloves	**G** = **B** + Respirator	**3** = High	Flammability.... 0
C = **B** + Apron	**H** = **F** + Goggles	**2** = Moderate	Reactivity.... 1
D = **C** + Face Shield	**I** = **B** + Respirator	**1** = Slight	Protection.... D
E = **B** + Dust Mask	**X** = Ask Supervisor	**0** = Insignificant	

SECTION I - PRODUCT IDENTIFICATION

Product Code: 706 **Supersedes date: May 14, 2001** **Section(s) changed: I, II, IV, VII, VIII** **Effective date: April 25, 2003**

PRODUCT NAME: CHLORO-DET
GENERIC NAME: Chlorinated Dishmachine Detergent
DISTRIBUTORS NAME:
INFORMATION PHONE NUMBER: 314-771-6600
CHEMICAL FAMILY: Dishmachine Detergent
FORMULA: Proprietary Mixture
DISTRIBUTORS ADDRESS:
EMERGENCY PHONE NUMBER IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE OR ACCIDENT: CHEMTREC 800-424-9300
PROPER SHIPPING DESCRIPTION: > 1 Qt: Compounds, Cleaning Liquid (Contains potassium hydroxide), 8, NA1760, II LABEL: Corrosive
≤ 1 Qt: Consumer Commodity, ORM-D LABEL: None

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS No.	Wt%	OSHA PEL	ACGIH TLV	OTHER
Sodium Hydroxide	1310-73-2	<10	2 mg/m^3	2 mg/m^3	
Potassium Hydroxide	1310-58-3	<15	2 mg/m^3	2 mg/m^3	
Sodium Hypochlorite	7681-52-9	<5	NE	NE	

The information & recommendations set forth herein are presented in good faith & believed to be current & reliable. The manufacturer makes no representation as to the completeness or accuracy thereof & supplies information upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use. In no event will the manufacturer be responsible for any damage of any nature whatsoever resulting from the use of or reliance upon this information. No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which it refers.

SECTION III - PHYSICAL/CHEMICAL DATA

Boiling Point (°F): 212
Vapor Pressure (mm Hg): 17
Vapor Density (Air=1): 0.62
Evaporation Rate: (Water=1): GT 1.00
Solubility in Water: Complete
Specific Gravity: 1.2
Lbs/Gal Density: 10.0
pH Concentrate: 14
pH Use Dilution: 13
Physical Description: Colorless / Lt. Straw Thin Liquid
Chlorine Odor

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (Method Used): None LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA: Water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam, if product is involved.
SPECIAL FIRE FIGHTING PROCEDURES: Avoid exposure to fumes or vapors. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH Approved or equivalent to maintain TLV.
UNUSUAL FIRE & EXPLOSION HAZARD: Use water spray to cool adjacent fire exposed containers. Product will not burn but may splatter if temperature exceeds boiling point.

SECTION V - REACTIVITY DATA

Stability: Stable.
Hazardous Polymerization: Will not occur.
Incompatibility (Materials to Avoid): Strong Acids.
Hazardous Decomposition Products: If burned, normal combustion products: Carbon Dioxide, Carbon Monoxide; Nitrous Oxides.

SECTION VI - STORAGE & HANDLING INFORMATION

KEEP OUT OF REACH OF CHILDREN. DANGER. POISON.
Avoid all contact. Store upright in original closed container.
Other Precautions: Do not get in eyes, on skin or on clothing. Remove & wash contaminated clothing before reuse.

SECTION VII - HEALTH HAZARDS AND FIRST AID

Carcinogenicity:	NTP?	IARC Monographs?	OSHA REGULATED?
NE	NE	NE	YES

EFFECTS OF OVEREXPOSURE:
SKIN: Severe burns
EYES: Severe burns
INHALATION: Severe burns
INGESTION: Severe burns

EMERGENCY FIRST AID PROCEDURES:
SKIN: Wash with soap & water for 15 minutes. See physician if burning persists.
EYES: Flush with flowing water for 15 minutes & see physician.
INHALATION: Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get medical help.
INGESTION: Give milk or water to dilute material; DO NOT induce vomiting. Avoid alcohol. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: (Specify type) Normal room ventilation
VENTILATION: Local exhaust preferred. Mechanical (general) at point of mist acceptable. Avoid breathing vapor or spray.
PROTECTIVE GLOVES: Impervious rubber, alkali proof.
EYE PROTECTION: Splash proof chemical goggles or face shield.
OTHER PROTECTIVE EQUIPMENT: Impervious rubber boots & apron. Eye wash facilities. Safety Shower.
WORK/HYGIENIC PRACTICES: Practice good personal hygiene. Wash after handling. Shower at end of work period.

SECTION IX - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Neutralize with dilute acid or sodium bicarbonate. Mop up & flush to sewer with plenty of water. Floors may be slippery. Use care to avoid falls.
WASTE DISPOSAL METHOD: Dispose of in accordance with applicable Federal, State & Local regulations.

SECTION X - ADDITIONAL FEDERAL REGULATIONS

SARA TITLE III (EPCRA) NOTIFICATION: Does not contain chemicals subject to the reporting requirements of Section 302, 304, or 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) NOTIFICATION: SODIUM HYDROXIDE, POTASSIUM HYDROXIDE, SODIUM HYPOCHLORITE
For more information, consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.