



# HLC-3000, Liquid Heavy Duty Alkaline Cleaner

## 5. FIRE AND EXPLOSION HAZARD DATA

<b>FLASH POINT:</b>	(F): None (C): None
<b>METHOD:</b>	None
<b>FLAMMABLE LIMITS IN AIR</b>	
<b>LOWER (%):</b>	No data
<b>UPPER (%):</b>	No data
<b>SENSITIVITY TO MECHANICAL IMPACT(Y/N):</b>	NO
<b>SENSITIVITY TO STATIC DISCHARGE:</b>	Sensitivity to static discharge is not expected.
<b>SUITABLE EXTINGUISHING MEDIA:</b>	Product will not burn.
<b>FIRE FIGHTING PROCEDURES:</b>	Corrosive material. Avoid exposure to mist and splashes. Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES

### SPILL PROCEDURES:

<b>SMALL SPILLS:</b>	Flush with water. Reclaim as much as possible.
<b>LARGE SPILLS:</b>	Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush remainder with water.

<b>PERSONAL PRECAUTIONS:</b>	Not applicable
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Not applicable
<b>METHODS FOR CLEANING UP:</b>	Not applicable

## 7. HANDLING AND STORAGE

<b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:</b>	<b>DANGER:</b> Concentrated, caustic material. Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Store indoors. Store in a cool, dry area. Store in a well ventilated area.
<b>OTHER PRECAUTIONS:</b>	Do not reuse container. Empty containers may retain product residue, follow MSDS/label precautions even after container is emptied. Contact with certain food sugars can release hazardous amounts of carbon monoxide gas in enclosed vessels. Read and follow label instructions.
<b>SPECIFIC USE(S):</b>	Not applicable.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### PROTECTIVE EQUIPMENT:



<b>EXPOSURE CONTROLS:</b>	Use in a well ventilated area.
<b>RESPIRATORY PROTECTION:</b>	Not normally required. If product is used in a manner which creates dust or mist above recommended exposure limits, a NIOSH/MSHA approved respirator with dust/mist filter may be needed in the absence of proper environmental controls.
<b>PROTECTIVE GLOVES:</b>	Neoprene. Nitrile gloves. Rubber gloves.
<b>EYE PROTECTION:</b>	Goggles. Face shield.
<b>OTHER PERSONAL PROTECTION EQUIPMENT:</b>	Rubber boots. Rubber apron. Plastic hard hat. Appropriate protective clothing as needed to prevent skin contact. Liquid may penetrate leather shoes and cause delayed burns. Eyewash fountains and safety showers must be easily accessible. PVC boots.
<b>VENTILATION:</b>	General mechanical and/or local exhaust as needed to meet exposure limits if mist in air. Corrosion resistant equipment recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE AND ODOR:</b>	Clear. Light brown. Liquid. Odorless.
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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>BOILING POINT (F):</b>	Not determined	(C) Not determined
<b>VAPOR PRESSURE:</b>	Not determined	
<b>VAPOR DENSITY (AIR=1):</b>	Not determined	
<b>SOLUBILITY IN WATER:</b>	Not determined	
<b>SPECIFIC GRAVITY:</b>	1.30 +/- 0.01	
<b>VOC Content (%):</b>	Not determined	
<b>EVAPORATION RATE:</b>	Not determined	
<b>PH:</b>	> 14	

### 10. STABILITY AND REACTIVITY

<b>STABILITY DATA:</b>	STABLE
<b>POLYMERIZATION:</b>	Will Not Occur.
<b>HAZARDOUS DECOMPOSITION:</b>	Oxides of Carbon. Oxides of Nitrogen.
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	Avoid contact with aluminum, zinc, other soft metals or galvanized metals. Reaction will generate hydrogen gas. This gas is flammable and/or explosive in presence of ignition source. Do not mix with acidic materials. May cause violent reactions.
<b>CONDITIONS/HAZARDS TO AVOID:</b>	None.

### 11. TOXICOLOGICAL INFORMATION

<b>ACUTE TOXICITY:</b>	Not Established
<b>EFFECTS OF CHRONIC EXPOSURE:</b>	Not established.
<b>OTHER TOXIC EFFECTS:</b>	Not established.

### 12. ECOLOGICAL INFORMATION

<b>ECOTOXICOLOGICAL INFORMATION:</b>	No data at this time
<b>CHEMICAL FATE INFORMATION:</b>	No data at this time.
<b>MOBILITY:</b>	Not applicable.
<b>PERSISTENCE/DEGRADABILITY:</b>	Not applicable
<b>BIOACCUMULATIVE POTENTIAL:</b>	Not applicable
<b>OTHER ADVERSE EFFECTS:</b>	Not applicable

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHODS:** Dispose in accordance with Federal, State and Local regulations.

### 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

### 15. REGULATORY INFORMATION

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
SODIUM HYDROXIDE 1310-73-2	28 max.	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
SODIUM HYDROXIDE 1310-73-2	28 max.	1000 lb 454 kg	Not Listed	Not Listed

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PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
SODIUM HYDROXIDE 1310-73-2	28 max.	Listed

The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	MARTK:
SODIUM HYDROXIDE 1310-73-2	28 max.	Listed

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	NJRTK:
SODIUM HYDROXIDE 1310-73-2	28 max.	Listed

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	PARTK:
SODIUM HYDROXIDE 1310-73-2	28 max.	Listed

### 16. OTHER INFORMATION

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

\*\*\* END OF MSDS \*\*\*