

4. FIRST AID MEASURES

NOTES TO PHYSICIAN: None.

5. FIRE AND EXPLOSION HAZARD DATA

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

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

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

PERSONAL PRECAUTIONS: Not applicable
ENVIRONMENTAL PRECAUTIONS: Not applicable
METHODS FOR CLEANING UP: Not applicable

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	Avoid contact with eyes, skin and clothing. DANGER: Concentrated, alkaline liquid. Do not breathe dusts or mists. Store only in original container and keep closed. Store in a cool, dry area. Store in a well ventilated area. Contents may develop pressure upon prolonged storage; loosen closure cautiously before opening. Mix only with water.
OTHER PRECAUTIONS:	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.
SPECIFIC USE(S):	Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS:	Use in a well ventilated area.
RESPIRATORY PROTECTION:	Use approved NIOSH respiratory protection if TLV/PEL exceeded or if over exposure is likely.
PROTECTIVE GLOVES:	Nitrile, neoprene, or other appropriate gloves are recommended to minimize hand skin contact.
EYE PROTECTION:	Goggles and face shield are recommended to minimize eye contact.
OTHER PERSONAL PROTECTION EQUIPMENT:	Appropriate protective clothing as needed to prevent skin contact. It is the responsibility of the end user of this product to determine level of PPE required that is consistent with safe use of this product.

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VENTILATION: 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

APPEARANCE AND ODOR:	Clear. Yellow liquid. Chlorine odor.	
BOILING POINT (F):	Not determined	(C) Not determined
VAPOR PRESSURE:	Not determined	
VAPOR DENSITY (AIR=1):	Not determined	
SOLUBILITY IN WATER:	Not determined	
SPECIFIC GRAVITY:	1.220 - 1.230	
VOC Content (%):	None	
EVAPORATION RATE:	Not determined	
PH:	> 13	

10. STABILITY AND REACTIVITY

STABILITY DATA:	STABLE
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	Chlorine gas. Oxygen.
INCOMPATIBILITY (MATERIALS TO AVOID):	Contact with acids and acid-containing cleaners, such as rust removers, vinegar, and toilet bowl cleaners may generate hazardous gases, such as chlorine, along with heat. Interaction with ammonia-containing materials may liberate ammonia gas or chloramine derivatives of ammonia. Mix only with water.
CONDITIONS/HAZARDS TO AVOID:	None.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Not Established
EFFECTS OF CHRONIC EXPOSURE:	Not established.
OTHER TOXIC EFFECTS:	Not established.

12. ECOLOGICAL INFORMATION

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

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15. REGULATORY INFORMATION

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
SODIUM HYDROXIDE 1310-73-2	10 - 15	Listed	Listed	Listed	Not Listed
POTASSIUM HYDROXIDE 1310-58-3	1 - 5	Listed	Listed	Listed	Not Listed
Sodium hypochlorite 7681-52-9	6 max.	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
SODIUM HYDROXIDE 1310-73-2	10 - 15	1000 lb 454 kg	Not Listed	Not Listed
POTASSIUM HYDROXIDE 1310-58-3	1 - 5	1000 lb 454 kg	Not Listed	Not Listed
Sodium hypochlorite 7681-52-9	6 max.	100 lb 45.4 kg	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
SODIUM HYDROXIDE 1310-73-2	10 - 15	Listed
POTASSIUM HYDROXIDE 1310-58-3	1 - 5	Listed
Sodium hypochlorite 7681-52-9	6 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	10 - 15	Listed
POTASSIUM HYDROXIDE 1310-58-3	1 - 5	Listed
Sodium hypochlorite 7681-52-9	6 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	10 - 15	Listed
POTASSIUM HYDROXIDE 1310-58-3	1 - 5	Listed
Sodium hypochlorite 7681-52-9	6 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	10 - 15	Listed
POTASSIUM HYDROXIDE 1310-58-3	1 - 5	Listed
Sodium hypochlorite 7681-52-9	6 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 ***