



## Material Safety Data Sheet

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Chlor-Rinse  
**SYNONYMS:** Cleaning Compound  
**PRODUCT CODES:** 100030  
**MANUFACTURER:** Thechem Laboratories Inc  
**ADDRESS:** 7373 Rowlett Park Drive  
Tampa, FL 33610-1141

**EMERGENCY PHONE:** ChemTel: North America: 1-800-255-3924  
International: +01-813-248-0585

**CHEMICAL NAME:** Hypochlorite Solution  
**CHEMICAL FAMILY:** Hypochlorite Solution  
**CHEMICAL FORMULA:** NA  
**PRODUCT USE:** Cleaning  
**PREPARED BY:** TGD  
**REVISION NUMBER:** 1.2  
**MSDS REVISION DATE:** 6/28/2010

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Components listed in this section may contribute to the potential hazards associated with exposure to the concentrate. The product may contain additional non-hazardous or trade-secret components.

#### INGREDIENT:

	<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
Sodium Hypochlorite	7681-52-9		< 12%	NA No
	<u>ppm</u>	<u>mg/m3</u>		
OSHA PEL-TWA:	0.5	NA		
OSHA PEL STEL:	NA	NA		
OSHA PEL CEILING:	NA	NA		
ACGIH TLV-TWA:	1.0	2 mg/m <sup>3</sup>		
ACGIH TLV STEL:	NA	NA		
ACGIH TLV CEILING:	NA	NA		

### SECTION 3: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

#### ROUTE(S) OF ENTRY:

#### POTENTIAL HEALTH EFFECTS SHORT TERM/ACUTE EXPOSURE:

**Eyes:** Yes      **Inhalation:** Yes      **Skin:** Yes      **Ingestion:** Unlikely

**EYES:** Extremely corrosive! This product causes corneal scarring and clouding. Glaucoma, cataracts and permanent blindness may occur.

**SKIN:** Corrosive! Concentrated solutions may cause pain and deep severe burns to the skin. Prolonged and repeated exposure to diluted solutions often causes irritation, redness, pain and drying and cracking of the skin. Human evidence has indicated that an ingredient in this product can cause skin sensitization.

**INHALATION:** Corrosive! Product may cause severe irritation of the nose, throat and respiratory tract. Repeated and/or prolonged exposures may cause productive cough, runny nose, bronchopneumonia, pulmonary edema and reduction of pulmonary function. Repeated inhalation exposure may cause impairment of lining of lung function and permanent lung damage.

**INGESTION:** Corrosive! Will immediately cause severe corrosion of and damage to the gastrointestinal tract. Exposure characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration.

**CHRONIC HEALTH HAZARDS:** A constant irritant to the eyes and throat. Low potential for sensitization after exaggerated exposure to damaged skin.

**CARCINOGENICITY:** NTP: NO                      ARC Monographs: NO                      OSHA Regulated: NO

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Persons with impaired respiratory function, or heart disorders (or disease) may be more susceptible to the effects of the substance.

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#### SECTION 4: FIRST AID MEASURES

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**EYES:** Flush with large amounts of running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.

**SKIN:** Wash with large amounts of running water for at least 15 minutes. If irritation persists get medical attention.

**INGESTION:** Offer small amounts of milk or water Do not induce vomiting. Consult physician immediately for additional advice and treatment

**INHALATION:** Remove victim to fresh air, Administer oxygen, Seek Medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Consider oral administration of sodium thiosulfate solutions if sodium hypochlorite is ingested. Do not administer neutralizing substances since the resultant exothermic reaction could further damage tissue. Endotracheal intubation could be needed if glottic edema compromises the airway. For individuals with significant inhalation exposure, monitor arterial blood gases and chest x-ray.

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#### SECTION 5: FIRE-FIGHTING MEASURES

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**FIRE AND EXPLOSIVE PROPERTIES:**

**FLAMMABLE LIMITS IN AIR, UPPER:** None  
(% BY VOLUME)                      **LOWER:** None

**FLASH POINT:** (Closed Cup):                      None  
**FLAMMABLE LIMITS:**                                      None

**AUTOIGNITION TEMPERATURE:** None Known

**NFPA HAZARD CLASSIFICATION**

**HEALTH:** 3                                      **FLAMMABILITY:** 0                                      **REACTIVITY:** 0                                      **OTHER:** C

**HMIS HAZARD CLASSIFICATION**

**HEALTH:** 3                                      **FLAMMABILITY:** 0                                      **REACTIVITY:** 0                                      **PROTECTION:** NA

**EXTINGUISHING MEDIA:** Use appropriate methods for combating surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Vapors are irritating. Self contained breathing apparatus (SCBA) should be worn.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Chlorine gas.

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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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**CLEAN-UP MEASURES:** Stop spill or leak if it can be done safely. Contain spill to smallest possible area. Large spills should be recovered for disposal. Absorb on sand or other absorbent. Transfer contaminated absorbent, soil and other materials to containers for disposal. Waste materials should be disposed of in accordance with all local, state and federal regulations.

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING:** As with any chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs.

Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty drums and containers. Keep containers closed when not in use.

**STORAGE:** Store in a cool, dry area away from combustibles and reactive chemicals. Store away from sources of ignition. Do not store at temperatures above 120 °F.

**OTHER PRECAUTIONS:** For Industrial & Institutional use only.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING CONTROLS:** Normal general ventilation is expected to be adequate. It is recommended that ventilation be designed in all instances to maintain airborne concentrations at lowest practicable levels. The user may wish to refer to 29 CFR 1910.1000(d)(2) and the ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" (Appendix C) for the determination of exposure limits of mixtures. An industrial hygienist or similar professional may be consulted to confirm that the calculated exposure limits apply.

**RESPIRATORY PROTECTION:** Use a NIOSH approved respirator or SCBA in the absence of adequate ventilation.

**EYE PROTECTION:** Wear protective eyewear recommended by OSHA to prevent accidental exposure. Wear eye protection appropriate to prevent eye exposure.

**SKIN PROTECTION:** Rubber gloves are recommended.

**OTHER PERSONAL PROTECTIVE EQUIPMENT:** Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

**HYGIENIC PRACTICES:** Wash hands after use. Keep containers closed when not in use.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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<b>APPEARANCE:</b>	Clear Yellow Liquid
<b>ODOR:</b>	Mild Chlorine
<b>PHYSICAL STATE:</b>	Liquid
<b>pH AS SUPPLIED:</b>	12.5 – 13.5
<b>BOILING POINT:</b>	Decomposes @ > 220 °F
<b>MELTING POINT:</b>	NA
<b>FREEZING POINT:</b>	32 °F
<b>VAPOR PRESSURE (mmHg):</b>	Same as water
<b>VAPOR DENSITY (AIR = 1):</b>	Same as water
<b>SPECIFIC GRAVITY):</b>	1.2

**EVAPORATION RATE:** < 1.0 (Butyl Acetate = 1)  
**SOLUBILITY IN WATER:** 100 %  
**PERCENT SOLIDS BY WEIGHT:** NA  
**PERCENT VOLATILE** NA  
**MOLECULAR WEIGHT:** Mixture  
**VISCOSITY:** NA

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**SECTION 10: STABILITY AND REACTIVITY**

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**STABILITY:** Product is Stable

**CONDITIONS TO AVOID (STABILITY):** Heat, Light and low pH.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Acids, ammonia, detergents and reducing agents.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hydrogen Chloride

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID (POLYMERIZATION):** Will not polymerize

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**EYE EFFECTS:** No further toxicological data known.

**SKIN EFFECTS:** No further toxicological data known.

**ORAL EFFECTS:** No further toxicological data known.

**INHALATION EFFECTS:** No further toxicological data known.

**OTHER:** No further data known.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOTOXICOLOGICAL INFORMATION:** This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be prevented and minimized wherever possible.

**ENVIRONMENTAL FATE:** Not Known.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Ensure that collection, transport, treatment, and disposal of waste product, containers and rinsate complies with all applicable laws and regulations. Note that use, mixture, processing, or contamination of the product may cause the material to be classified as a hazardous waste. It is the responsibility of the product user or owner to determine at the time of disposal, whether the product is regulated as a hazardous waste.

**RCRA HAZARD CLASS:** NA

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**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION  
PROPER SHIPPING NAME:**

Corrosive Liquids N.O.S. (contains Sodium Hypochlorite)

**HAZARD CLASS:** Class 8  
**ID NUMBER:** UN1760  
**PACKING GROUP:** III  
**EXCEPTIONS:** 173.154 ORM-D Consumer Commodity for Quarts and Gallons  
**LABEL STATEMENT:** Danger

**WATER TRANSPORTATION** NA  
**AIR TRANSPORTATION** NA  
**OTHER AGENCIES:** Not Regulated

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS**

**SARA 313:** This product contains none of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**CLEAN WATER ACT / OIL POLLUTION ACT:** This product contains none of the chemicals subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802.

**CERCLA REPORTABLE QUANTITY:** Any components listed below have been assigned a reportable quantity (RQ) by the Federal EPA. Release of the product into the environment that exceed the RQ for a particular component must be reported to the National Response Center at 1-800-424-8802.

**COMPONENT:** Sodium Hypochlorite 100 lbs

**TOXIC SUBSTANCES CONTROL ACT:** The components of this product are listed on the TSCA Inventory.

**OZONE DEPLETING SUBSTANCES:** This product contains no ozone depleting substances as defined by the Clean Air Act.

**HAZARDOUS AIR POLLUTANTS:** Any components listed below are defined by the Federal EPA as hazardous air pollutants.

**COMPONENT:** None

**STATE REGULATIONS:** Check with the appropriate state agency to determine whether regulations exists.

**INTERNATIONAL REGULATIONS:** NA

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**SECTION 16: OTHER INFORMATION**

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**PREPARED BY:** Department of Regulatory Compliance

**DATE OF ISSUE:** 10/12/07

**DATE OF LAST REVISION:** 6/28/2010

*We believe the information given is accurate. It is offered in good faith, but without guarantee. Since conditions are beyond our control, user assumes all responsibility and risk.*