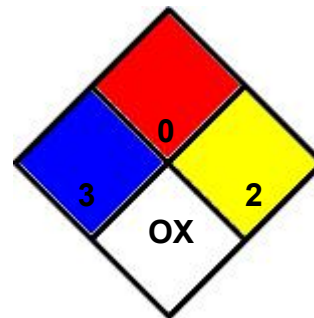


# MATERIAL SAFETY DATA SHEET

## SODIUM HYPOCHLORITE

### COMPANY IDENTIFICATION

**DISTRIBUTER:** Chem-Tech  
400 Ternes Dr.  
Random Lake, WI 53075



**INFORMATION PHONE:** 920-994-2299  
**EMERGENCY:** 1-800-255-3924  
**HMIS**                    **HEALTH:** 3    **FLAMMABILITY:** 0    **REACTIVITY:** 2    **PROTECTIVE:** J

### SECTION I - PRODUCT IDENTIFICATION

**PRODUCT:** SODIUM HYPOCHLORITE

**PREPARED BY:** Jason Sprang

**DATE PREPARED:** 2/28/2003

**LAST REVISION:** 9/1/2010

**HAZARD CLASS:** 8

**UN:** 1791

**PACKING:** II

**GUIDE NUMBER:** 154

**SHIPPING:** Sodium Hypochlorite

**SYNONYMS:** Chlorine

### SECTION II - HAZARDOUS INGREDIENTS

<u>Chemical Name</u>	<u>%</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>IDLH</u>
SODIUM HYPOCHLORITE	15	7681-52-9	1 PPM	.05 PPM	10 PPM

### SECTION III - PHYSICAL CHARACTERISTICS

**BOILING POINT:** 212°F

**SPECIFIC:** 1.08

**VAPOR PRESSURE:** N/A

**MELTING POINT:** N/A

**EVAPORATION:** N/A

**VAPOR DENSITY:** N/A

**pH:** 11-12

**SOLUABILITY IN WATER:** miscible

**APPEARANCE AND ODOR:** Greenish yellow liquid, chlorine like odor.

### SECTION IV - FIRE/EXPLOSION

**FLASH POINT:** N/A

**FLASH POINT METHOD USED:** N/A

**LEL:** 0

**UEL:** 0

**EXTINGUISHING MEDIA:** Use media which is safe for surrounding fire.

**SPECIAL FIRE FIGHTING:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Material is an oxidizing agent. Contact with combustibles may ignite or promote combustion. Acid and heat accelerate combustion. Decomposition products may include chlorine.

**FIRE INCOMPATIBILITY:** Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous. Avoid reaction with copper, acids, ammonium salts and oxidizable materials. Reacts explosively with amines and methanol. When finely divided materials such as sugar, wood dust and paper are contaminated with the solution they burn more readily when dry. Incompatible with bowl cleaners containing bisulfites.

## SECTION V - REACTIVITY DATA

**STABLE:** Strong oxidizing agent. Highly unstable in air unless mixed with sodium hydroxide. Usually stored and used in solution. This report is for sodium hypochlorite solution.

**INCOMPATIBILITY:** Avoid storage with amines, methanol, copper, peroxides, metal salts, reducing agents, acids, ammonium salts, solvents, combustible materials, greases and wood. Contact with acids liberates toxic gases i.e. chlorine.

**HAZARDOUS DECOMPOSITION OR BY PRODUCTS:** Noncombustible liquid. Heating may cause expansion or decomposition leading to violent rupture of containers. Decomposes on heating and produces toxic fumes of chlorine caustic compounds. Contact with acids liberates toxic gases. Contact with acids produces toxic fumes of chlorine. Product is considered stable under normal handling conditions.

**HAZARDOUS POLYMERIZATION:** Will Not Occur

## SECTION VI - HEALTH HAZARD DATA

### ACUTE HEALTH EFFECTS

**EYE CONTACT:** Corrosive to the eyes and may cause severe damage including blindness.

**INHALATION:** Irritating to the nose, throat, and respiratory tract.

**INGESTION:** Corrosive and may cause severe and permanent damage to mouth, throat, and stomach.

**SKIN CONTACT:** Substance is corrosive. Cause severe skin burns.

**SIGNS AND SYMPTOMS OF EXPOSURE:** Shortness of breathing, confused behavior, redness of skin, swelling of tissues, watery eyes, nausea.

**AGGRAVATED MEDICAL CONDITIONS:** N/A

### EMERGENCY FIRST AID PROCEDURES

**EYE CONTACT:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

**INHALATION:** Remove to fresh air. Monitor patient and call emergency personnel if necessary.

**INGESTION:** If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**SKIN CONTACT:** Wash with soap and water. Get medical attention if irritation develops or persists.

## SECTION VII - REGULATIONS

### EPA REGULATIONS:

**RCRA 40 CFR:** Not listed

**SARA EHS 40 CFR 355:** Not listed

**CERCLA 40 CFR 302.4:** Listed per CWA Section 311(b)(4)  
100 lb. (45.35 kg)

**TSCA:** Listed

**SARA 40 CFR 372.65:** Not listed

## SECTION VIII - SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:** Ventilate area of leak or spill. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

**WASTE DISPOSAL METHOD:** The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

**OTHER PRECAUTIONS:** N/A

## **SECTION IX - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** A NIOSH approved respirator with a multi gas cartridge is required when using this product.

**VENTILATION:** Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits.

**PROTECTIVE GLOVES:** North brand Silver shield or neoprene gloves are recommended.

**EYE PROTECTION:** Safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE CLOTHING:** Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.

**WORK / HYGENIC:** Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.