

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY INFORMATION

**Product Name:** Sodium Hypochlorite-12.5% Bacticide

**Synonyms:** Chlorine bleach

**Product Type:** Sodium hypochlorite solution

**Manufacturer / Supplier Information:**

LYNX ENTERPRISES, INC.  
2184 Schlichter Drive  
Hamilton, OH 45015  
1-800-950-0736  
www.Lynx-Online.com

**Emergency Contact:**

ChemTrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**GHS Classification:** Skin Corrosion Category 1  
Serious Eye Damage, Category 1

**GHS Signal Word:** DANGER

**Hazard Statements:**

H314: Causes severe skin burns and eye damage  
H318: Causes serious eye damage  
H302: Harmful if swallowed  
H332: Harmful if inhaled

**Precautionary Statements:**

**Prevention:** P280: Wear protective gloves, protective clothing, eye and face protection  
P262: Do not get in eyes, on skin, or on clothing  
P260: Do not breathe mist, vapours, or spray  
P264: Wash skin and contaminated clothing thoroughly after handling

**Response:**

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P310: Immediately call a POISON CENTER or doctor/physician  
P390: Absorb spillage to prevent material damage.  
P363: Wash contaminated clothing before reuse  
P321: Specific treatment (see First Aid information on product label and/or Section 4 of the SDS)

**Storage:** P401: Store in a secure manner. Keep Container Closed.  
P403+235: Store in a well ventilated place. Keep cool

**Disposal:** P501: Dispose of contents and/or container in accordance with local, regional, national, and/or international regulations.



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance / Mixture:** Mixture

**Hazardous Components:**

INGREDIENT(S)	CAS number	Wt. %
Sodium Hypochlorite	7681-52-9	12.5 - 15.0
Sodium Hydroxide	1310-73-2	0.5 - 1.5

**Synonyms:** N/A

**Disclosure Statement:**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

### 4. FIRST AID MEASURES

**Eye Contact:** Immediately flush contaminated eyes with a directed stream of water for as long as possible. Remove contact lenses, if present, then continue rinsing. GET MEDICAL ATTENTION IMMEDIATELY.

**Skin Contact:** Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with large amounts of water. GET MEDICAL ATTENTION IMMEDIATELY. Thoroughly clean and dry contaminated clothing before reuse.

**Inhalation:** If inhalation of mists, vapors, or spray occurs and adverse effects result, remove to uncontaminated area. Evaluate ABC's (is Airway constricted, is Breathing occurring, and is blood Circulating) and treat symptomatically. GET MEDICAL ATTENTION IMMEDIATELY. There is no specific antidote, treat symptomatically.

**Ingestion:** If swallowed, DO NOT INDUCE VOMITING. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. Never give anything by mouth to an unconscious or convulsive person. GET MEDICAL ATTENTION IMMEDIATELY.

**Other**

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Use agent suitable for type of surrounding fire.

**Fire Fighting Procedures:** Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

**Fire Fighting Equipment:** Wear an approved positive-pressure self-contained breathing apparatus operated in pressure demand mode.

**Hazardous Decomposition Products:** Hydrogen chloride, Chlorine

**Flammable Class:** Not flammable

**Other Information:** May release toxic gases.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin, eyes and clothing. Avoid breathing fumes, vapor, mist, or spray. Wear appropriate personal protective equipment recommended in Section 8, Exposure Controls / Personal Protection, of the SDS. Vacate poorly ventilated areas as soon as possible, and do not return until odors have dissipated. Evacuation of surrounding area may be necessary for large spills. Stay upwind and keep out of low areas. Consider evacuation of personnel located downwind. Refer to Section 7, Handling and Storage, for additional precautionary measures.

**Environmental Precautions:** Keep out of water supplies and sewers. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Releases should be reported, if required, to appropriate agencies.

### Methods and Materials for containment and cleaning up:

Remove sources of ignition. Stop leak if possible without personal risk. Keep people away from and upwind of spill/leak. Evacuation of surrounding area may be necessary for large spills. Absorb spillage to prevent material damage. Absorb with inorganic absorbents. Liquid material may be removed with a vacuum truck. Shovel dried residue into suitable container. See Section 13, Disposal considerations, for additional information.

**Waste Disposal Method:** Check federal, state, and local codes.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use only with adequate ventilation. Vacate poorly ventilated areas as soon as possible, and do not return until odors have dissipated.

**Conditions for Safe Storage:** Store and handle in accordance with all current regulations and standards. If possible, store in original container. If not possible, store in a corrosion resistant container with a resistant inner liner and with an adequate relief device. Keep container tightly closed and upright when not in use. Store in a cool, dry area. Store out of direct sunlight. Store in a well-ventilated area. Avoid heat, flames, sparks and other sources of ignition. Do not freeze. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines:

Component	CAS	TLV - Threshold Limit Value (TWA / STEL / C)	Exposure Limits
Sodium Hypochlorite	7681-52-9	TWA	2 mg/m <sup>3</sup>
Sodium Hydroxide	1310-73-2	TWA	2 mg/m <sup>3</sup>

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local ventilation to keep airborne levels of vapor or mist to acceptable levels.

### Personal Protective Equipment:

**Eye and Face:** Wear approved safety glasses or chemical splash goggles. Use a face shield when appropriate.

**Skin:** Wear chemical resistant protective gloves.

**Respiratory:** NIOSH approved respirator if TLV is exceeded.

**Work Hygienic Practices:** Avoid contact with skin, eyes, and clothing. Do not breathe vapor or mist. Do not ingest.

**Other use Precautions:** Wear appropriate protective clothing to prevent skin exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Yellow liquid	<b>Upper flammability or explosive limits:</b>	N/A
<b>Odor:</b>	Chlorine	<b>Lower flammability or explosive limits:</b>	N/A
<b>Odor threshold:</b>	N/A	<b>Vapor Pressure:</b>	N/A
<b>pH:</b>	12	<b>Vapor Density (air=1):</b>	N/A
<b>Relative Density:</b>	1.22	<b>Partition coefficient: n-octanol/water:</b>	N/A
<b>Melting point / freezing point:</b>	-3 to -14 °F	<b>Auto Ignition temperature:</b>	N/A
<b>Solubility:</b>	Complete	<b>Decomposition temperature:</b>	N/A
<b>Boiling Point:</b>	Approx. 230° F.	<b>Viscosity:</b>	N/A
<b>Flash Point:</b>	None	<b>VOC's (% wt.)</b>	N/A
<b>Evaporation Point:</b>	N/A	<b>Percent Volatile:</b>	N/A
<b>Flammability (solid, gas)</b>	N/A	<b>Other:</b>	N/A

## 10. STABILITY AND REACTIVITY

**Reactivity:** May decompose upon heating and exposure to sunlight.

**Chemical Stability:** Stable at normal temperatures and pressures.

**Possibility of hazardous reactions:** N/A

**Conditions to avoid:** Avoid heat, flames, sparks and other sources of ignition. Avoid direct sunlight.

**Incompatible materials:** Material is a strong oxidizing agent and should only be mixed with water. Mixing this product with chemicals (e.g. ammonia compounds, acids, detergents) or organic matter will release chlorinated compounds, which are irritating to eyes, lungs, and mucous membranes. Other materials to avoid include: most metals, peroxides, reducing agents, oxidizing agents

**Hazardous decomposition Products:** Hydrogen chloride, Chlorine

## 11. TOXICOLOGICAL INFORMATION

**Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.

**Eye Contact:** Causes serious eye damage. Eye exposures may cause burns to the eye lids, conjunctivitis, corneal edema, and corneal burn.

**Skin Contact:** Skin contact may be irritating and corrosive. Can cause skin burns.

**Inhalation:** Inhalation may cause coughing, choking, irritation (possibly severe), chemical burns, shortness of breath, and pulmonary edema. Pulmonary edema may develop several hours after a severe acute exposure.

**Ingestion:** Not a likely route of exposure in occupational settings. If swallowed, may cause irritation, swelling, pain, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.

**Target Organ Effects:** N/A

**Chronic Effects:** N/A

**Medical Conditions Aggravated by Exposure:** N/A

**Germ Cell Mutagenicity:** N/A

**Carcinogenicity:** This product is not listed as a carcinogen (known or potential)

**Reproductive Toxicity:** N/A

**STOST-single exposure:** N/A

**STOST-repeated exposure:** N/A

**Acute Toxicity:** N/A

**Acute Toxicity Values** N/A

**Other:** N/A

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity Data:

**Aquatic Toxicity:** Data provided are for sodium hypochlorite.

**Freshwater Fish Toxicity:** LC50 clupea harengus 0.033 - 0.097 mg/l/96 hr, flow through bioassay (pH: 8)  
LC50 cymatogaster aggregata 0.045 - 0.098 mg/l/96 hr, flow through bioassay (pH: 8)  
LC50 gasterosteus aculeatus 0.141 - 0.193 mg/l/96 hr, flow through bioassay (pH: 8)  
LC50 oncorhynchus gorbuscha 0.023 - 0.052 mg/l/96 hr, flow through bioassay (pH: 8)  
LC50 oncorhynchus kisutch 0.026 - 0.038 mg/l/96 hr, flow through bioassay (pH: 8)  
LC50 parophrys vetulus 0.044 - 0.144 mg/l/96 hr, flow through bioassay (pH: 8)  
LC50 pimephales promelas 0.22 - 0.62 mg/l/96 hr, flow through bioassay (pH: 7)

**Invertebrate Toxicity:** EC50 ceriodaphnia sp. 0.006 mg/l/24 hr  
EC50 daphnia magna 0.07 - 0.7 mg/l/24 hr  
EC50 daphnia magna 2.1mg/l/96 hr  
EC50 gammarus fasciatus 4 mg/l/96 hr  
EC50 nitocra spinipes 40 mg/l/96 hr  
EC50 palaemonetes pugio 52 mg/l/96 hr

**Other Toxicity: Algae** ErC50 dunaliella sp. 0.6 mg/l/24 hr  
ErC50 dunaliella tertiolecta 0.11 mg/l/24 hr  
ErC50 skeletonema costatum 0.095 mg/l/24 hr

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging:** Dispose of in accordance with all federal, state and local regulations

**Other:** N/A

## 14. TRANSPORTATION INFORMATION

**DOT Description:** UN1791, Hypochlorite Solutions, 8, PG II, RQ

**Labels Required:** Corrosive

**DOT Description - BULK:** UN1791, Hypochlorite Solutions, 8, PG II, RQ

**Labels Required:** Corrosive 1791

**Other:** N/A

## 15. REGULATORY INFORMATION

**RQ – CERCLA (Comprehensive Environmental Response and Liability Act)**

INGREDIENT(S)	CAS number	Pounds
Sodium Hypochlorite	7681-52-9	100
Sodium Hydroxide	1310-73-2	1000

**SARA 313 (Comprehensive Environmental Response and Liability Act)**

This product does not contains any chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372)

**OSHA Hazards:** No data available.

**WHMIS Classification:** No data available.

**Clean Water Act:** No data available.

**Clean Air Act:** No data available.

**SARA 311/312:** No data available.

**Other:** N/A

## 16. OTHER INFORMATION

**Date of Issue:** 08/03/2015

**Revision Date:**

**Print Date:** 09/29/2015

**NFPA:** 3-0-1

N/A

**Other:** Do not add anything to concentrated product.

### **Disclaimer:**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.