



Material Safety Data Sheet
Sodium hypochlorite solutions, 1-5%

Section 1 - Chemical Product and Company Identification

MSDS Name:

Sodium hypochlorite solutions, 1-5%

Catalog Numbers:

LC24630, LC24640

Synonyms:

Bleachsolution

Company Identification:

LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7681-52-9	Sodium hypochlorite	5

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Palegreen-yellow

Caution! Corrosive. May cause respiratory and digestive tract irritation. May cause severe eye and skin irritation with possible burns.

Target Organs: Noneknown.

Potential Health Effects**Eye:**

Eyecontactcanresultinimmediatepain,cornealandconjunctivaledema,conjunctivialhemorrhages(stronger solutions result in permanent damage).



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Skin:

May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Skin contact may result in severe burns, blistering, pain.

Ingestion:

Ingestion results in irritation/corrosion of mucous membranes, mouth, stomach with edema (severe) of the pharynx, larynx; abdominal spasms, nausea, vomiting, colitis, hypotension, circulatory collapse, delirium, coma possible. Above 15% concentrations 1 oz. or less may be fatal.

Inhalation:

Slight to severe respiratory tract irritation; coughing, sore throat, dyspnea, pulmonary edema (delayed).

Chronic:

Repeated exposure may cause allergic respiratory reaction (asthma). May cause dermatitis and conjunctivitis.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once. Cover burns with loose sterile non-medicated bandages.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes. Cover burns with a dry sterile bandage (secure, not tight).

Ingestion:

Get medical aid at once. Give conscious victim milk, melted ice cream, beaten egg to dilute and decompose chemical. Do not use emesis, gastric lavage, or acid antidotes. Antacids such as milk of magnesia, aluminum hydroxide may be used. Maintain airway, respiration, and blood pressure. Avoid use of sodium bicarbonate.

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Negligible fire and explosion hazard when exposed to heat or flame. Avoid breathing vapors, use approved respirator if necessary. Move container if possible, avoid breathing vapors or dust. Chlorine gas may be evolved - slow decomposition may evolve oxygen (accelerates flammability of combustible material). Use water spray to absorb corrosive vapors, wet combustible materials.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Not published.

CAS# 7681-52-9: Not published.



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Explosion Limits:

Lower: Upper:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Area may be washed down with water. Ventilate and wear protective clothing. Do not breathe vapors. Small quantities may be neutralized in a fume hood by adding carefully to a concentrated reducing agent (sodium bisulfite, sodium thiosulfate), adjusting pH 7 (neutral) and diluting with large quantities of water.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

Storage:

Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Work under a hood - SAR/SCBA (high levels).

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Sodium hypochlorite	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs

Personal Protective Equipment

Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Not required for normal use. Firefighting -- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.



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Section 9 - Physical and Chemical Properties

Physical State: Clear liquid
Color: Palegreen-yellow
Odor: Chlorine-like
pH: Alkaline
Vapor Pressure: No information found.
Vapor Density: No information found.
Evaporation Rate: < ether
Viscosity: No information found.
Boiling Point: No information found.
Freezing/Melting Point: < 0°C (< 32.00°F)
Decomposition Temperature: No information found.
Solubility in water: Soluble.
Specific Gravity/Density: 1.1
Molecular Formula: No information found.
Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials

Acids, reducing agents, nitro compounds, methyl alcohol, primary amines, acidified benzyl cyanide, aziridine, cellulose, ethyleneimine, metals.

Hazardous Decomposition Products

Chlorine. slow decomposition produces oxygen which accelerates combustible material flammability

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.
CAS# 7681-52-9: NH3486300.

LD50/LC50:

CAS# 7732-18-5:
Oral, rat: LD50 = >90 mL/kg.
CAS# 7681-52-9:
Oral, mouse: LD50 = 5800 mg/kg.



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Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7681-52-9: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Sodium hypochlorite is a severe eye, mucous membrane, and skin irritant; skin sensitizer.

Teratogenicity:**Reproductive:****Mutagenicity:****Neurotoxicity:**

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

CAS#7732-18-5 is listed on the TSCA Inventory.

CAS#7681-52-9 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

CAS#7681-52-9: final RQ = 100 pounds (45.4 kg)

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

Sodium hypochlorite can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.



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California Regulations

European/International Regulations

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7681-52-9 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7681-52-9 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: June 29, 1998

Revision Date: October 16, 2007

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