

Cust

# MATERIAL SAFETY DATA SHEET

## Sodium Hypochlorite Solution

### SECTION 1 . Product and Company Identification

Product Name and Synonym: Sodium Hypochlorite Solution

Product Code: 261-00

Material Uses:

Manufacturer: OFI Testing Equipment, Inc.  
11302 Steeplecrest Drive  
Houston, TX 77065 USA  
Phone: (713) 880-9885  
Fax: (713) 880-9886

Entry Date : 5/11/2010

Print Date: 7/31/2010

24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

*For G. Boyne Co.*

Health:	3			
Flammability:	0			
Reactivity:	1			
Hazard Rating:				
Least	Slight	Moderate	High	Extreme
0	1	2	3	4
NA = Not Applicable		NE = Not Established		

### SECTION 2 HAZARD IDENTIFICATION

Causes severe irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview: Warning! Harmful If Swallowed Or Inhaled. Causes Irritation To Eyes And Respiratory Tract.  
Causes Substantial But Temporary Eye Injury.

Inhalation: Excessive Inhalation of Vapors, Mists, or Fumes may Cause Bronchial Irritation, Coughing, Labored Breathing Nausea, and Pulmonary Edema. Additional Effects have Included Circulatory Collapse and Confusion, Delirium, Coma.

Ingestion: May Cause Erosion of the Mucous Membranes. Symptoms Include Vomiting, Circulatory Collapse, Confusion, Coma, and Death. May Cause Edema of Pharynx, Glottis, and Larynx and Perforation of the Esophagus or Stomach. Effects are Less Damaging at Lower Concentrations.

Skin: Contact May Cause Severe Irritation with Blistering and Eczema, Especially at Higher Concentrations.

Eye Contact: Contact may Cause Severe Irritation and Damage, Especially at Higher Concentration.

Chronic Exposure: A Constant Irritant to the Eyes and Throat.

Aggravated by Exposure: Persons with Impaired Respiratory Function may be More Susceptible to the Effects.

### SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Sodium Hypochlorite Solution, ~6% (aq)	CAS# 7681-52-9	100%	W/V	None Established

### SECTION 4 FIRST AID MEASURES

## Sodium Hypochlorite Solution

Causes severe irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

### SECTION 5 FIRE FIGHTING MEASURES

- Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire
- Fire / Explosion Hazards: Releases oxygen in a fire which may increase severity of surrounding fire or rupture container. Not considered to be an explosion hazard.
- Fire Fighting Procedure: Use any means suitable for extinguishing surrounding fire. Use water spray to cool fire exposed containers.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Dispose of in a manner consistent with federal, state and local regulations.

Ventilate area or Leak or Spill. Remove all Sources of Ignition. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from Entering. Contain and Recover Liquid when Possible. Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container.

Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! If a Leak or Spill has not Ignited, Use Water Spray to Disperse Vapors, to Protect Personnel Attempting to Stop Leak, and to Flush Spills Away from Exposures. US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Qty.

### SECTION 7 HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Respiratory Protection: Chlorine Cartridge
- Ventilation
- Local Exhaust
- Mechanical
- Protective Gloves: NIOSH Approved Gloves
- Eye Protection: Splash Goggles
- Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Sodium Hypochlorite Solution

Melting Point:	~ 0°C	Percent Volatile by Volume:	> 99
Boiling Point:	~ 100°C	Evaporation Rate	Information not available
Vapor Pressure:	18 mm Hg @ 20° C	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	Clear yellow solution/bleach odor	Upper Flamm. Limit in Air	Not applicable
Flash Point:	Information not available		
Specific Gravity:	1.09		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability:	Stable
Conditions to Avoid:	Sunlight and air
Materials to Avoid:	Acids, amines ammonia salts methanol, cellulose
Hazardous Decomposition Products:	Chlorine gas and hydrogen chloride fumes
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

**SECTION 11 Toxicological Information**

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- 3 (Sodium Hypochlorite)

**SECTION 12 Ecological Information**

Environmental Fate: No information found  
 Environmental Toxicity: No information found

**SECTION 13 Disposal Considerations**

Dilute with water and flush to sewer if local ordinances allow, otherwise, whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**SECTION 14 Transport Information**

DOT Classification: Hypochlorite solutions, 8, UN1791, PG III

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

**SECTION 15 Regulatory Information**

Chemical Inventory Status –  
 Part 1: Ingrandient  
 Sodium Hypochlorite (as NaOCl) (7681-52-9)  
 TSCA Yes  
 EC Yes

## Sodium Hypochlorite Solution

Japan YES  
Australia Yes

### Chemical Inventory Status –

Part 2:Ingredient  
Sodium Hypochlorite (as NaOCl) (7681-52-9)  
Korea Yes  
DSL Yes  
NDSL No  
Phil. Yes

### Federal, State & International Regulations –

Part 1: Ingredient.  
Sodium Hypochlorite (as NaOCl) (7681-52-9)  
RQ No  
TPQ No  
List NO  
Chemical Catg No

### Federal, State & International Regulations –

Part 2:Ingredient  
Sodium Hypochlorite (as NaOCl) (7681-52-9)  
CERCLA 100  
261.33 No  
8(d) No

Chemical Weapons Convention: No

TSCA 12 (b):No

CDTA:No MIXTURE/LIQUID

SARA 311/312: Acute:YES

Chronic: No

Fire: No

Pressure: No

Reactivity: No

Australian Hazchem Code: NONE ALLOCATED

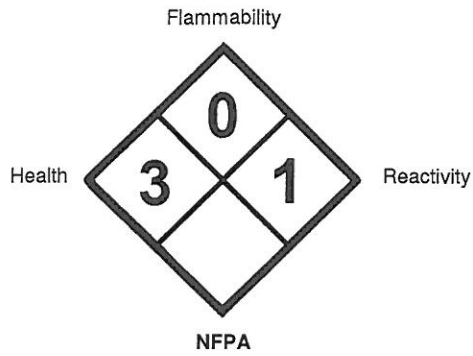
Poison Schedule:S5

## SECTION 16

### Additional Information

Conditions aggravated/Target organs: Persons with preexisting skin, eye, respiratory, or heat disorders may be more susceptible. Corrosive effects. Acute: Irritation to skin, eyes, lungs, mucous membranes and GI tract. Coughing. Chronic: Dermatitis, lung damage.

Sodium Hypochlorite Solution



Revisions

	NFPA	
	0	
7/30/2010	0.1	updated msds to 16 section from 10 section msds. STN

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