# **Sodium Hypochlorite Solution, 2%**



### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor:

**Section 1** 

Sodium Hypochlorite Solution, 2% Science education applications Bleach Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

## Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

#### **GHS Classification:**

Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2, Hazardous to the aquatic environment - Acute Category 2, Hazardous to the aquatic environment - Chronic Category 3

Section 3	Composition / Information on Ingredients				
Chemical Name	CAS # %				
Water	7732-18-5 97.8				
Sodium Hypochlorite Sodium Hydroxide	7681-52-9   2.1     1310-73-2   0.1				
Section 4	4 First Aid Measures				
Emergency and First	Aid Procedures				
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.				
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.				
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).				
Section 5	Firefighting Procedures				

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Extinguishing Media:	Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Fire or excessive heat may produce hazardous decomposition products. Contact with acids liberates toxic gas.
Hazardous Combustion Products:	Chlorine containing gases, Hydrogen chloride, Sodium Oxides

Section 6	Spill or Leak Procedures
Steps to Take in Case Material Is Released or Spilled:	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Evacuate the area promptly.
Environmental Precautions:	Avoid breathing material. Avoid contact with skin and eyes. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

## **Section 7**

## Handling and Storage

Handling: Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid direct sunlight and heat. After contact with skin, wash immediately with plenty of water.
Storage: Keep container tightly closed in a cool, well-ventilated place.

Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8	Protection Information				
	ACG	<u>SIH</u>	OSHA PEL		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
Sodium Hydroxide	N/A	N/A	2 mg/m3 TWA	N/A	
Control Parameters					
Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.				
Personal Protective Equipment (PPE):	Lab coat, apron, eye w	ash, safety shower.			
Respiratory Protection:	No respiratory protection required under normal conditions of use.				
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.				
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.				
Gloves:	Natural latex,, Natural r	rubber, Nitrile			

## **Section 9**

**Physical Data** 

Formula: NaClO	Vapor Pressure: 14 mm Hg (Water)
Molecular Weight: Solution	Evaporation Rate (BuAc=1): >1
Appearance: Colorless Liquid	Vapor Density (Air=1): 2.58 (Chlorine)
Odor: None	Specific Gravity: 1.07 at 20 C
Odor Threshold: No data available	Solubility in Water: Soluble
<b>pH:</b> 11	Log Pow (calculated): No data available
Melting Point: 0 C	Autoignition Temperature: No data available
Boiling Point: 100 C	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: N/A	Percent Volatile by Volume: 95%

## **Section 10**

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: No data available Stable under normal conditions. None known. Water-reactive materials, Ammonium Salts, Amines, Metals (powdered), Strong acids, Organic Compounds Sodium Oxides, Hydrogen chloride, Chlorine containing gases

**Reactivity Data** 

		Safety L	Data Sheet				
Hazardous Polymeriza	tion: Wi	ll not occur					
Section 11		Toxici	ity Data				
Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation, ingestior None Known No data available	n, eye or skin contac	xt.				
Acute Toxicity: Chemical Name Water		<b>CAS Number</b> 7732-18-5	7732-18-5 Oral LD50 Rat				
Sodium Hypochlorite		7681-52-9	90000 mg/kg Oral LD50 Mouse 5800 mg/kg				
Carcinogenicity: Chemical Name Sodium Hydroxide		<b>CAS Number</b> 1310-73-2	IARC Not listed	NTP Not listed	OSHA Not listed		
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a m No evidence of a te No evidence of a se No evidence of neg See Section 2 N/A	ratogenic effect (birlensitization effect.					
Section 12		E	cological Data				
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	No ecological information available No data Dissolved into water No data No data S: No data						
Chemical Name Water Sodium Hypochlorite		CAS Number 7732-18-5 7681-52-9	<b>Eco Toxicity</b> No data available 06 HR EC50 DAPHNIA MAGNA 2.1 MG/L 24 HR EC50 SKELETONEMA COSTATUM 0.095 MG/L				
Sodium Hydroxide		1310-73-2					
Section 13		Disp	osal Informati	on			
Disposal Methods: Waste Disposal Code(	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. (s): Not Determined						
Section 14		Tran	sport Informat	ion			
Ground - DOT Proper S UN number: 1791 Class name: Hypochlorite solu Marine pollutant: No Po	: 8 Packing group: III itions Reportable Qua	antity (RQ): 400 lbs			: III EMS-No: F-A, S-B SOLUTION Marine		
Soction 15		Dogu	latory Informa	tion			

## Section 15

Regulatory Information

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sodium Hypochlorite	7681-52-9	No	100 lb RQ	100 lb final RQ 45.4 kg final	No	No
Sodium Hydroxide	1310-73-2	No	1000 lb RQ	RQ 1000lb (454kg) final RQ	No	No

### Section 16

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

**Additional Information** 

#### Glossary

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ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health