Sodium Hypochlorite, 5%



Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Sodium Hypochlorite, 5% 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;

DANGER

Section 2



Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

GHS Classification:

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

Section 3 Cor	Composition / Information on Ingredients			
Chemical Name	CAS #	<u>%</u>		
Water	7732-18-5	94.9		
Sodium Hypochlorite	7681-52-9	5		
Sodium carbonate	497-19-8	0.1		

Section 4

Emergency and First	Aid Procedures
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing 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

First Aid Measures

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 or excessive heat may produce hazardous decomposition products. Contact with acids liberates toxic gas.

Fire and/or Explosion Hazards:

Hazardous Combustion Products:

Chlorine containing gases, Hydrogen chloride, Sodium Oxides

Section 6		Spill or Leak F	Procedures		
Steps to Take in Released or Spill	ed: eq ne tha en ar Pr to re gr	posure to the spilled material may be irritating or harmful. Follow personal protective uipment recommendations found in Section 8 of this SDS. Additional precautions may be cessary based on special circumstances created by the spill including; the material spilled, e quantity of the spill, the area in which the spill occurred. Also consider the expertise of poloyees in the area responding to the spill. Ventilate the contaminated area. Evacuate the ea promptly. event the spread of any spill to minimize harm to human health and the environment if safe do so. Wear complete and proper personal protective equipment following the commendation of Section 8 at a minimum. Dike with suitable absorbent material like anulated clay. Gather and store in a sealed container pending a waste disposal evaluation. ollect spillage.			
Section 7		Handling and	d Storage		
Handling:Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid direct sunlight a heat. After contact with skin, wash immediately with plenty of water.Storage:Store locked up. Keep container tightly closed in a cool, well-ventilated place. White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.				ise to the direct sunlight and	
Section 8 Protection Information					
<u>Chemical Name</u> No data available		<u>ACGII</u> (TWA) N/A	H (STEL) N/A	<u>OSHA</u> (TWA) N/A	<u>PEL</u> (STEL) N/A
Control Parameter Engineering Mea	ngineering 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. Goo general room ventilation should be sufficient to control airborne contaminates to safe				
Personal Protect Respiratory Prote Eye Protection:	ive Equipment (PPE): ection:	levels. hent (PPE): Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use. Wear chemical splash goggles when handling this product. Have an eye wash station available.			eye wash station
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. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly.			
Gloves:		Natural latex,, Natural ru	·		
Section 9		Physical	r Data		
Formula: NaClO		١	/apor Pressure: 14 r	nm Hg (Water)	

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

Reactivity Data

Section 10

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Incompatible Materials:	Water-reactive materials, Ammonium Salts, Amines, Metals (powdered), Strong acids, Organic Compounds
Hazardous Decomposition Products:	Sodium Oxides, Hydrogen chloride, Chlorine containing gases
Hazardous Polymerization:	Will not occur

Section 11

Toxicity Data

Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation, ingestion None Known No data available	ı, eye or skin conta	ict.		
Acute Toxicity: Chemical Name Water		CAS Number 7732-18-5	Oral LD50 Oral LD50 Rat 90000 mg/kg	Dermal LD50	Inhalation LC50
Sodium Hypochlorite		7681-52-9	Oral LD50 Mouse 5800 mg/kg		
Sodium carbonate		497-19-8	Oral LD50 Rat 4090 mg/kg		INHALATION LC50 Rat 2300 MG/M3
Carcinogenicity: Chemical Name No data available		CAS Number 7732-18-5 7681-52-9 497-19-8	IARC Not listed	NTP Not listed	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mi No evidence of a ter No evidence of a se No evidence of nega See Section 2 N/A	ratogenic effect (bi ensitization effect.			
Section 12			cological Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	No data No data No data No data	al information avai	lable		
Chemical Name Water Sodium Hypochlorite		CAS Number 7732-18-5 7681-52-9	Eco Toxicity No data available 96 HR EC50 DAPHNIA		005 MC/
Sodium carbonate		497-19-8	24 HR EC50 SKELETO 96 HR LC50 LEPOMIS 48 HR EC50 DAPHNIA 120 HR EC50 NITZSCH	MACROCHIRUS 300 MAGNA 265 MG/L	
Section 13		Dis	posal Informati	on	

Disposal information

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s):

Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name: UN 1791, Hypochlorite solutions, 8, PG III, Marine Pollutant Air - IATA Proper Shipping Name:

UN 1791, Hypochlorite solutions, 8, PG III, Marine Pollutant

Section 15	Regulatory Information					
TSCA Status:	All comp	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 RQ	No	No
California Prop 65:	No California Proposition 65 ingredients					
Section 16					Additio Informa	
Revised: 08/21/2018	Replac	ces: 06/15/2018		Printed: 08-	25-2018	

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.

Glossary

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