

Safety Data Sheet

Sodium Hypochlorite, 13%

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Sodium Hypochlorite, 13%
Recommended Use: Science education applications
Synonyms: Concentrated Bleach, Liquid Chlorine Solution
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

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

DANGER



Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

GHS Classification:

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

Acute Toxicity Dermal Contains	13 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains	13 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	13 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	87
Sodium Hypochlorite	7681-52-9	13

Section 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: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

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Fire and/or Explosion Hazards:	Fire or excessive heat may produce hazardous decomposition products. Contact with acids liberates toxic gas.
Hazardous Combustion Products:	Halogenated compounds (Cl, F, Br),

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:	Exposure to the spilled material may be severely irritating or highly toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Evacuate the area promptly. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container Wash area with soap and water Do not flush to sewer. Collect spillage.
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Section 7 Handling and Storage

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

Chemical Name	ACGIH	OSHA PEL
No data available	(TWA) N/A (STEL) N/A	(TWA) N/A (STEL) 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 wash, 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:	Nitrile, Natural rubber

Section 9 Physical Data

Formula: NaClO	Vapor Pressure: 14 mm Hg (Water)
Molecular Weight: Solution	Evaporation Rate (BuAc=1): >1
Appearance: Pale yellow Liquid	Vapor Density (Air=1): 2.58 (Chlorine)
Odor: Strong Characteristic	Specific Gravity: 1.07 at 20 C
Odor Threshold: No data available	Solubility in Water: Soluble
pH: 9.2	Log Pow (calculated): No data available
Melting Point: -30 - -20 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 Data

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:	Halogenated compounds (Cl, F, Br),

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Hazardous Polymerization:

Will not occur

Section 11

Toxicity Data

Routes of Entry: Inhalation and skin contact.
Symptoms (Acute): Diarrhea, Abdominal Cramps, Respiratory Irritation, Nausea, Respiratory disorders, Dermatitis
Delayed Effects: No data available

Acute Toxicity:

Chemical Name

CAS Number

Oral LD50

Dermal LD50

Inhalation LC50

Water

7732-18-5

Oral LD50 Rat

90000 mg/kg

Sodium Hypochlorite

7681-52-9

Oral LD50 Mouse

5800 mg/kg

Carcinogenicity:

Chemical Name

CAS Number

IARC

NTP

OSHA

No data available

Not listed

Not listed

Not listed

Chronic Effects:

Mutagenicity:

No evidence of a mutagenic effect.

Teratogenicity:

No evidence of a teratogenic effect (birth defect).

Sensitization:

No evidence of a sensitization effect.

Reproductive:

No evidence of negative reproductive effects.

Target Organ Effects:

Acute:

See Section 2

Chronic:

N/A

Section 12

Ecological Data

Overview:

Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Mobility:

No data

Persistence:

No data

Bioaccumulation:

No data

Degradability:

No data

Other Adverse Effects:

No data

Chemical Name

CAS Number

Eco Toxicity

Water

7732-18-5

No data available

Sodium Hypochlorite

7681-52-9

96 HR EC50 DAPHNIA MAGNA 2.1 MG/L

24 HR EC50 SKELETONEMA COSTATUM 0.095 MG/L

Section 13

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:

DOT - UN1791, Hypochlorite Solutions, 8, III

Air - IATA Proper Shipping Name:

UN number: 1791 Class: 8 Packing group: III EMS-No: F-A, S-B
Proper shipping name: HYPOCHLORITE SOLUTION Marine
pollutant: No

Section 15

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

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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

Section 16

Additional Information

Revised: 10/26/2015

Replaces: 09/09/2015

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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.

Glossary

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