# Sodium Hydroxide, 10%



Section 1 Product Description

Product Name: Sodium Hydroxide, 10%
Recommended Use: Science education applications
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 severe skin burns and eye damage. Causes serious eye damage.

#### **GHS Classification:**

Ingestion:

Skin Corrosion/Irritation Category 1A, Serious Eve Damage/Eye Irritation Category 1

# Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 90

 Sodium Hydroxide
 1310-73-2
 12

### Section 4 First Aid Measures

**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. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

# Section 5 Firefighting Procedures

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.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

#### 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 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. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

**Environmental Precautions:** 

Avoid breathing material. Avoid contact with skin and eyes.

Reduce airborne dust and prevent scattering by moistening with water Ventilate the area by opening door and/or turning on fans and blowers. Avoid runoff into storm sewers and ditches that lead to waterways. Absorb spill with inert material (e.g., dry sand or earth), then place in

a chemical waste container

#### Section 7

## Handling and Storage

Handling: Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection.

Storage: Store locked up. 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

**ACGIH OSHA PEL** (STEL) (TWA) (STEL)

**Chemical Name** Sodium Hydroxide (TWA) 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):** 

**Respiratory Protection:** Respirator Type(s):

Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use.

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

**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,, Nitrile, Nitrile - Extra Thick (8 mm), Neoprene

#### Section 9

### Physical Data

Formula: See Section 3 **Molecular Weight:** 

Appearance: Colorless Liquid Odor: No data available

Odor Threshold: No data available

**pH**: 14

Melting Point: 318 C **Boiling Point: 100 C** 

Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available

Specific Gravity: No data available

Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: 10

Percent Volatile by Volume: No data available

#### Section 10

## Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Stable under normal conditions. Chemical Stability:

Conditions to Avoid: Exposure to moisture

Incompatible Materials: Water-reactive materials, Strong reducing agents, Acids, Hydroguinone, Organic halides,

Phosphorus, Alcohols, Metals, Aldehydes

Hazardous Polymerization: Will not occur

Section 11

**Toxicity Data** 

**Routes of Entry** Ingestion, skin and eye contact.

Symptoms (Acute): No data available

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

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHASodium Hydroxide1310-73-2Not listedNot listedNot 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: No data available Chronic: No data available

**Section 12** 

**Ecological Data** 

**Overview:** This material is not expected to be harmful to the ecology.

Mobility: No data

Persistence: Dissolved into water

Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Sodium Hydroxide 1310-73-2 Aquatic LC50 (96h) Rainbow Trout 45.4 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): D002

**Section 14** 

**Transport Information** 

**Ground - DOT Proper Shipping Name:** Sodium Hydroxide Solution, 8, PG II

Air - IATA Proper Shipping Name: Sodium Hydroxide Solution, 8, PG II

Section 15		Regulatory Information					
TSCA Status:	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 Hydroxide	1310-73-2	No	1000 lb RQ	1000lb (454kg) final RQ	No	No	

# Section 16 Additional Information

Revised: 03/03/2015 Replaces: None Printed: 04-22-2015

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.

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