Sodium Hydroxide, 6 M



Section 1

Product Description

Product Name: Recommended Use: Distributor:

Chemical Information:

Sodium Hydroxide, 6 M Science education applications 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)

Section 2

Chemtrec:

Hazard Identification

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

DANGER



Causes serious eye damage. Harmful to aquatic life.

GHS Classification:

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

Acute Toxicity Oral Contains Acute Toxicity Inhalation Vapor Contains Acute Toxicity Inhalation Dust/Mist Contains 20 % of the mixture consists of ingredient(s) of unknown toxicity 20 % of the mixture consists of ingredient(s) of unknown toxicity

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Section 3	Composition / Information on Ingredients				
Chemical Name		<u>CAS #</u>	%		
Water		7732-18-5	80		
Sodium Hydroxide		1310-73-2	20		

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.Ingestion:If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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:	Sodium Oxides, Hydrogen Gas,

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:Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.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.

Sec	tion 8		

Protection Information

	ACGIH		OSHA PEL	
Chemical Name	<u>(TWA)</u>	(STEL)	<u>(TWA)</u>	(STEL)
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 wash, safety shower.			
Respiratory Protection:	No respiratory protection required under normal conditions of use.			
Respirator Type(s):	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, Ni	itrile - 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: 12, conc: 0.05 % (solution); 13, conc: 1 % (solution); 14, conc: 5 % (solution) Melting Point: 0 C Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: No data available Vapor Pressure: 14 (water) Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): 0.7 (water) 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: 76%

Section 10

Reactivity: Chemical Stability:

Reactivity Data

No data available Stable under normal conditions.

		Safety I	Data Sheet				
Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:		Exposure to moisture Water-reactive materials, Strong reducing agents, Acids, Hydroquinone, Organic halides, Phosphorus, Alcohols, Metals, Aldehydes Hydrogen Gas,, Sodium Oxides Will not occur					
Routes of Entry Symptoms (Acute):		ate or damage mucous	membranes and respir				
Delayed Effects:	No data available		, , ,		C C		
Acute Toxicity: Chemical Name Water		CAS Number 7732-18-5	Oral LD50 Oral LD50 Rat 90000 mg/kg	Dermal LD50	Inhalation LC50		
Carcinogenicity: Chemical Name Sodium Hydroxide		CAS Number 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 No evidence of No evidence of						
Section 12			Ecological Data	a			
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	No data Dissolve No data No data	ed into water	o be harmful to the ecol	logy.			
Chemical Name Water Sodium Hydroxide		CAS Number 7732-18-5 1310-73-2	Eco Toxicity No data available Aquatic LC50 (96h) R	ainbow Trout 45.4 MG/	L		
Section 13		Dis	posal Informat	tion			
Disposal Methods:			e with all applicable Fed aste disposer (TSD) to a		egulations. Always		

Waste Disposal Code(s):

Section 14

Transport Information

Ground - DOT Proper Shipping Name:

UN/NA number: UN1824; Shipping name: Sodium hydroxide solution; 8, II; Exceptions: Ltd Qty \leq 1 Lt

Not Determined

Air - IATA Proper Shipping Name: UN/NA number: UN1824; Shipping name: Sodium hydroxide solution; 8, II; Exceptions: Ltd Qty ≤ 1 Lt

Section 15		Regulatory Information				
TSCA Status:	All compo	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: 04/15/2015

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.

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