Sodium Hydroxide, 0.1M



Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Sodium Hydroxide, 0.1M Science education applications Soda Lye, Sodium Hydroxide 0.1N, Caustic Soda, Lye 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 skin irritation. Causes serious eye damage. Harmful to aquatic life.

GHS Classification:

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

Composition / Information on Ingredients
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Chemical Name	<u>CAS #</u>	<u>%</u> 00 74
Water	7732-18-5	99.74
Sodium Hydroxide	1310-73-2	0.26

Section 4

Section 3

First Aid Measures

Section 5	Firefighting Procedures
Ingestion:	Take off contaminated clothing and wash before reuse. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Skin Contact:	to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Emergency and First Inhalation: Eyes:	In case of accident by inhalation: remove casualty to fresh air and keep at rest. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

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.
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 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.
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: Storage:

Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes. Keep container tightly closed in a cool, well-ventilated place. Green - general chemical storage

Section 8

Storage Code:

Protection Information

	<u>ACGIH</u>		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:	Local exhaust ventilation or other engineering controls are normally required when			
	handling or using this product to avoid overexposure.			
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			
			IOSH/MSHA approved res	
Eye Protection:	Wear chemical splash g available.	oggles when handli	ng this product. Have an ey	ye wash station
Skin Protection:			sistant gloves, an apron ar	
			e. Inspect gloves for chem	
			ctive equipment regularly.	
	other exposed areas with work.	n mild soap and wa	ter before eating, drinking,	and when leaving
Gloves:	Nitrile, Neoprene, Natura	al latex,		
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Section 9

Physical Data

Formula: NaOH (aq) Molecular Weight: 40.00 (Sodium Hydroxide) Appearance: Colorless Liquid Odor: None Odor Threshold: No data available **pH:** 13 Melting Point: No data available Boiling Point: No data available 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: > 1.0 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: No data available

Section 10

Reactivity Data Not generally reactive under normal conditions.

Reactivity: Chemical Stability: Conditions to Avoid: **Incompatible Materials:** Hazardous Polymerization:

Stable under normal conditions. None known. Water-reactive materials Will not occur

Section 11

Toxicity Data

Routes of Entry

Ingestion, Skin contact.

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Symptoms (Acute): Delayed Effects:	Gastrointestinal, No data available					
Acute Toxicity: Chemical Name Water		CAS Number 7732-18-5	Oral LD5 Oral LD50 Ra 90000 mg/kg	at	al LD50	Inhalation LC50
Carcinogenicity: Chemical Name Sodium Hydroxide		CAS Number 1310-73-2	IARC Not listed	N Not listed	TP N	OSHA ot listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a se No evidence of nega	ratogenic effect (birth insitization effect. ative reproductive eff vailable				
Section 12		Ec	ological [Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	This material is not expected to be harmful to the ecology. This material is expected to have very high mobility in soil. It does not absorb to most soil types. Dissolved into water Bioconcentration is not expected to occur. No data s: No data					
Chemical Name Water Sodium Hydroxide		7732-18-5 N	E co Toxicity No data available Aquatic LC50 (96	e Sh) Rainbow Trout	45.4 MG/L	
Section 13		Dispo	osal Inforr	mation		
Disposal Methods: Waste Disposal Code(cont	pose in accordance w tact a permitted wast scarded, this product	e disposer (TSD) to assure complia	ance.	tions. Always
Section 14		Trans	port Infor	mation		
Ground - DOT Proper Not regulated for transp	Shipping Name: Air - IATA Proper Shipping Name:					
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		Additi	onal Infor	mation		
Bovisod: 00/00/2015	Poplacos: 09/10/2015 Printed: 10.20-2015					

Revised: 09/09/2015

Replaces: 08/19/2015

Printed: 10-29-2015

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 Industrial Hygienists	NTP OSHA	National Toxicology Program 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 IDLH	Toxic Substances Control Act Immediately dangerous to life and health