Sodium Hydroxide, 4M

CAROLINA® www.carolina.com

Section 1

Product Description

Product Name: Recommended Use: Distributor:

Chemical Information:

Sodium Hydroxide, 4M 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;

Harmful to aquatic life.

GHS Classification:

Hazardous to the aquatic environment - Acute Category 3

Section 3	Composition / Information on Ingredients				
<u>Chemical Name</u> Water Sodium Hydroxide Tryptone Agar Sodium Chloride Yeast Extract	CAS #%7732-18-599.911310-73-20.0891079-40-20.019002-18-007647-14-508013-01-20				
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: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 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-containe breathing apparatus.Fire and/or Explosion Hazards:Fire or excessive heat may produce hazardous decomposition products. N/A Carbon dioxide, Carbon monoxide					
Section 6 Spill or Leak Procedures					
Steps to Take in Case Material Is Released or Spilled: Environmental Precautions:	No adverse health affects expected from the clean-up of spilled material. 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:

Avoid release to the environment. Suitable for any general chemical storage.

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•	handling this product. Have	e an eve wash station		
Wear chemical splash goggles when handling this product. Have an eye wash station available.				
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.				
No information available				
	egular intervals. Clear reas with mild soap a	egular intervals. Clean protective equipment reg reas with mild soap and water before eating, dri		

Formula: See Section 3 Molecular Weight: Appearance: Colorless Odor: None Odor Threshold: No data available pH: No data available Melting Point: No data available Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: N/A

Vapor Pressure: No data available Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): No data available Specific Gravity: No data available Solubility in Water: No data available 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

Reactivity: Chemical Stability: Conditions to Avoid: **Incompatible Materials:** Hazardous Polymerization: No data available Stable under normal conditions. None known. Water-reactive materials, Strong oxidizing agents Will not occur

Section 11

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Toxicity Data

Symptoms (Acute):	No data available
Delayed Effects:	No data available

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat		
		90000 mg/kg		
Agar	9002-18-0	Oral LD50 Mouse		
		16000 mg/kg		
Sodium Chloride	7647-14-5	Oral LD50 Rat		
		3000 mg/kg		
		Oral LD50 Mouse		
		4 GM/KG		

Carcinogenicity: Chemical Name	CAS Number	IARC	NTP	OSHA
Sodium Hydroxide	1310-73-2	Not listed	Not listed	Not listed
Sodium Chloride	7647-14-5	Not listed	Not listed	Not listed
Chronic Effects:				

Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:

No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects.

See Section 2 No data available

Section 12

Ecological Data

Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects: This material is not expected to be harmful to the ecology. No data Dissolved into water No data No data No data

Chemical Name Water Sodium Hydroxide Sodium Chloride

7732-18-5 1310-73-2 7647-14-5

CAS Number

Eco Toxicity No data available Aquatic LC50 (96h) Rainbow Trout 45.4 MG/L 96 HR LC50 LEPOMIS MACROCHIRUS 12946 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 1000 MG/L

Section 13

Disposal Methods:

Waste Disposal Code(s):

Section 14

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT.

Disposal Information

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Transport Information

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15

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 Hydroxide	1310-73-2	No	1000 lb RQ	1000lb (454kg) final RQ	No	No
Sodium Chloride	7647-14-5	No	No	No	No	No

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 09/03/2014

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	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health