Material Safety Data Sheet



Sodium Hydroxide, 0.1 M to 0.5 M

Revised: 07/20/2010 **Replaces:** 07/20/2010 **Printed:** 10/12/2010

Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



Section 1 - Product Description

Product Name: Sodium Hydroxide, 0.1 M to 0.5 M

Product Code(s): 84-0884, 84-0935, 25-1214, 84-0518, 88-9551, 88-9553, 84-0546, 15-4665, 15-4665R, 84-0522, 20-3421, 84-0518, 88-9551, 88-9553, 84-0546, 15-4665, 15-

0667, C71926, C71970, C71180, C70692

Size: 7 mL, 1 L

Chemical Name: Sodium Hydroxide Solution

CAS Number: 1310-73-2

Formula: NaOH (Aqueous Solution)

Synonyms: Soda Lye

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: Harmful if inhaled or swallowed.

Potential Health Effects: Eves: May cause irritation.

Eyes: May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Sodium Hydroxide (CAS# 1310-73-2) < 2%

TLV units: ACGIH-TLV: Ceiling 2 mg/m3 (TWA) **PEL units:** OSHA-PEL: Ceiling 2 mg/m3 (TWA)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of ... (Water, unless specified as a water reactive material).

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

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

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Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating: Health: 2 Fire: 0 Reactivity: 0

Extinguisher Media: Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution. Keep container tightly closed in a cool, well-ventilated place.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes
Mechanical(General): Yes

Special: No **Other:** No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: N/A **Melting Point:** Approx. 0 °C

Boiling Point: Approx. 100 °C **Vapor Pressure:** 14

Vapor Density(Air=1):N/ASpecific Gravity (H2O=1):Approx. 1 at 20 °CPercent Volatile by Volume:99.6%Evaporation Rate (BuAc=1):Greater than 1

Solubility in Water: Soluble Appearance and Odor: Clear, colorless, odorless liquid

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition. Incompatibility (Materials to Avoid): Metals, Acids,

Hazardous Decomposition Products: N/A

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Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: orl-rbt LDLo: 500 mg/kg

Effects of Overexposure: Acute: See Section 2

Chronic: Mutation data cited. Not listed as a carcinogen by IARC, NTP or OSHA.

Conditions Aggravated by Overexposure: N/A

Target Organs: N/A

Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: D002

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1760, II, Corrosive, Sodium Hydroxide, 8

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:Chemical Category:Sodium Hydroxide - NoSodium Hydroxide - No

CERCLA Section 103 RQ(lb.): Sodium Hydroxide - 1000 lbs

RCRA Section 261.33: Sodium Hydroxide - No

Section 16 - Additional Information

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. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

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OSHA Occupational Safety and Health Administration Permissible Exposure Limit

PEL

Parts per million

ppm RCRA Resource Conservation and Recovery Act Superfund Amendments and Reauthorization Act SARA

Threshold Limit Value TLV **TSCA** Toxic Substances Control Act

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