



SAFETY DATA SHEET (SDS)

Sodium Hydroxide, 2N & 3N

01. Product and Company Identification							
Product Identifier:							
Trade Name:	2N Sodium Hydroxide, 3N Sodium Hydroxide						
Chemical Name:	Sodium Hydroxide Solution						
Catalog Number:	35063315, 35063307, 35061703, & 35061738						
Part of Kits:	35063013, 35061011, 35062611, 35061126, 35060944, 35060952						
Use of chemical:	Laboratory chemicals						
Identification of Manufacturer:							
Manufacturer/Supplier:	Biochemical Diagnostics, Inc. 180 Heartland Blvd., Edgewood, NY 11717 Phone: (631) 595-9200 Fax: (631) 595-9204						
Emergency telephone number:	(800) 255-3924						
02. Hazard(s) Identification							
Classification of substance or mixture:							
Corrosive to metals (Category 1)							
Skin irritation (Category 1)							
Serious eye damage (Category 1)							
Label elements:							
Hazard pictograms	 Corrosive						
Signal word: Danger							
Hazard statements:							
H290 May be corrosive to metals.							
H314 Causes severer skin burns and eye damage.							
H318 Causes serious eye damage.							
Precautionary statements:							
P264 Wash skin thoroughly after handling.							
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection							
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.							
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.							
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.							
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.							
Classification system:							
NFPA ratings (scale 0 - 4)							
	Health = 3 Fire = 0 Reactivity = 0						
HMIS-ratings (scale 0 - 4)							
<table border="1" style="border-collapse: collapse; width: 100px;"> <tr><td style="background-color: #0056b3; color: white;">HEALTH</td><td style="background-color: #0056b3; color: white; text-align: center;">3</td></tr> <tr><td style="background-color: #ff0000; color: white;">FIRE</td><td style="background-color: #ff0000; color: white; text-align: center;">0</td></tr> <tr><td style="background-color: #ffff00;">REACTIVITY</td><td style="background-color: #ffff00; text-align: center;">1</td></tr> </table>	HEALTH	3	FIRE	0	REACTIVITY	1	Health = 3 Fire = 0 Reactivity = 1
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FIRE	0						
REACTIVITY	1						

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03. Composition/information on ingredients

Chemical Characterization:	Solution
CAS No. Description	: 12200-64-5
Formula	: Sodium Hydroxide Solution in Water
Molecular weight	: N/A

04. First aid measures

Description of first aid measures:

- Inhalation:** Remove to fresh air. Consult a physician.
- Ingestion:** Rinse mouth with water. Seek medical attention.
- Skin Contact:** Wash off with soap and plenty of water. Rinse with dilute vinegar. Consult a physician.
- Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

05. Firefighting measures

Extinguishing media: Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

Special Fire Fighting Procedures: Wear proper protective equipment w/Self contained breathing apparatus.

Unusual Fire and Explosion Hazards: Do not splash on skin.

06. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Avoid breathing vapors, mist or gas. Keep unprotected persons away. Ensure adequate ventilation.

Environmental precautions:

Prevent further leakage if safe to do. Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and remove.

Waste Disposal Method:

Dispose in accordance with state, local and federal regulations

07. Handling and storage

Handling:

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation.

Conditions for safe storage, including any incompatibilities:



Requirements to be met by storerooms and receptacles: Store in a cool location.

Further information about storage conditions: Keep receptacle tightly sealed.

Store in well-ventilated, cool, dry conditions in well-sealed receptacles. Keep container upright to prevent leakage.

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08. Exposure controls/ personal protection	
Exposure Controls:	
Control parameters: Components with limit values that require monitoring at the workplace: 1310-58-3 Potassium Hydroxide PEL Long-term value: 2 mg/m ³ REL Long-term value: 2 mg/m ³ TLV Short-term value: 2 mg/m ³	
Personal protective equipment:	
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.	
Eye Protection:	 Tightly sealed safety glasses or face shield.
Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact	
Protection of Hands:	 Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Dispose of gloves after use.
Respiratory Protection: Use approved fume hood. If the exposure limit is exceeded, use NIOSH approved and tested full-face respirator that is independent of circulating air.	
Ventilation: Keep vapor levels as low as possible, use adequate general or local exhaust.	

09. Physical and chemical properties	
Appearance:	
Form: Liquid Color: Colorless	
Odor: Odorless	
pH: 14	
Melting Point: not available	
Boiling Point: 1320°C/ 2408°F	
Flash Point: no data available	
Ignition temperature: no data available	
Explosion limits: Lower: no data available Upper: no data available	
Vapor Pressure @ 20°C: no data available	
Specific Gravity @ 20°C (68°F): 1.30 g/cm ³	
Vapor Density: N/A	
Percent Volatile: N/A	
Evaporation Rate: N/A	
Flammable Limits in air % by volume: Lel: N/A Uel: N/A	
Solubility in/ Miscibility with Water@20°C: soluble	



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10. Stability and reactivity

Stability: Stable

Incompatibility: Water, acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin oxides, Zinc

Conditions to Avoid: Extremely high or low temperatures.

Hazardous Polymerization: Will not occur

Hazardous Decomposition: Sodium oxide. Thermal decomposition generates corrosive vapors.

11. Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification: Sodium Hydroxide, 3N

Oral LD50 no data available

Inhalation no data available

Dermal LD50 Rabbit 12894 mg/kg

Potential health effects:

On the skin: Contact causes severe skin burns.

On the eye: Causes serious eye damage.

Inhalation: Irritation of the respiratory tract. Irritation of the nasal mucous membranes.

Ingestion: Material is extremely destructive to tissue of the mucus membranes and upper respiratory tract.

12. Ecological information

Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Waste treatment methods

Product:

Dispose of in accordance with local, state and federal regulations.

Contaminated packaging:

Disposal must be made according to official regulations.

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14. Transport Information
UN Number: 1824
UN proper shipping name: Sodium hydroxide solution
Transport hazard class(es): 8
Packing group: II
Environmental hazards: None
Special precautions None

15. Regulatory Information
SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards: No SARA Hazards

16. Other Information
Revision B, June 2015

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, we make no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, we will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either express or implied of merchantability fitness for a particular purpose or of any other nature made hereunder with respect to the information set forth herein or to the product which the information refers.