MATERIAL SAFETY DATA SHEET

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Approved by: Darius Nicpon

Section 1 Chemical Product and Company Name

Product	**SODIUM HYDROXIDE, 0.05M**	ITEM No: 803S-B01E
Synonyms	Sodium hydroxide water solution	
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

Section 2 Composition/Ingredients Information

Chemical Name	CAS#	%	TLV Units
Water	7732-18-5	99.8%	None established
Sodium hydroxide	1310-73-2	0.2%	TWA: 2mg/m³

Section 3 Hazards Identification

WARNING! CORROSIVE!
HARMFUL IF SWALOWED. CAUSES BURNS TO SKIN AND EYES.

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Health	2
Flammability	0
Physical Hazard	0
Personal Protection	C

HMIS

Section 4 First Aid Measures

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.
INHALATION: Remove to fresh air. Get medical attention if necessary.
EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention immediately.
SKIN CONTACT: Flush thoroughly with mild soap and water. Remove contaminated clothing. Get medical attention if

Section 5 Fire Fighting Measures

Nonflammable liquid.
When heated to decomposition, emits toxic fumes of Na_2O
Contact with metals can generate hydrogen gas.

Extinguishing Media: Use TriClass, dry chemical extinguisher for surrounding fires.
Firefighters should use self-contained breathing apparatus and protective clothing.

Flash point: N/A
Autoignition temperature: N/A
Explosion limits: Lower: N/A **Upper:** N/A

0 = Minimal
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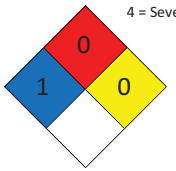

Section 6 Accidental Release Measures

Restrict unprotected personnel from the area. Contain the spill with inert absorbent material. Neutralize with 0.1M HCl and deposit in a sealed bag or container. Ventilate and wash spill area with soap and water.

Section 7 Handling and Storage

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Use only under adult supervision.
Handling: Use hood or with adequate ventilation. Avoid breathing vapor. Wash hands thoroughly after handling.

Storage: Store in a dedicated acid cabinet. Keep container in cool, well-ventilated area.

Section 8 Exposure Controls/ Personal Protection

Engineering controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.
Respiratory protection: Non should be needed if normal laboratory handling at room temperature. Use a NIOSH-approved respirator with proper cartridge when handling this material in emergency situations.

Section 9 Physical and Chemical Properties

Physical state: Liquid
Appearance: Transparent, Colorless, Clear.
Odor: No odor
pH: Not available
Vapor Pressure (mm Hg): not available
Vapor Density: the highest known is 0.62
Evaporation Rate: not available

Boiling point: The lowest know is 100°C
Melting point: ~ 0 °C/32
Freezing point: 0°C/32 °F
Decomposition temp: not available
Solubility: Miscible in water
Specific gravity (H_2O = 1): 1.011 at 20°C
Percent volatile (%): not available
Molecular formula: Mixture
Molecular weight: Mixture

Section 10 Stability and Reactivity

Chemical Stability: Stable
Conditions to Avoid: High temperatures, .
Incompatibilities: metals, acids, organic compounds.
Hazardous decomposition: Sodium oxide, Reacts with metals to form flammable and explosive hydrogen gas.
Hazardous polymerization: Will not occur.

Section 11 Toxicological Information

Effects of overexposure: Ingestion causes burns of the mouth, throat and stomach. Contact with skin and eyes may cause severe irritation or burns.

Acute oral toxicity ORAL LD_{50}: not available
Acute vapor toxicity IHL-LC_{50}: not available
DERMAL LD_{50}: not available

Section 12 Ecological Information

Not available.

Section 13 Disposal Considerations

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

Section 14 Transport Information

UN number: 1824
Shipping name: Sodium hydroxide solution
Hazard Class: 8
Packing group: PG III
Exceptions: Ltd Qty. ≤4L

Section 15 Regulatory Information

TSCA 8(b) Inventory: Water; Sodium hydroxide. DSCL (EEC) R36/37/38-irritating to eyes, respiratory system and skin.

Section 16 Other Information