



MATERIAL SAFETY DATA SHEET

MSDS No: 0046,003.00
Revision Date: December 16, 2011
Approved by: Darius Nicpon

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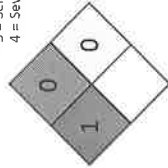
Section 1				
Chemical Product and Company Name				
Product	SODIUM HYDROXIDE, 0.05M			
Synonyms	Sodium hydroxide water solution			
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300			
ITEM No.: 803S-B01E				
Section 2				
Composition/Ingredients Information				
Chemical Name		CAS#	%	TLV Units
Water Sodium hydroxide		7732-18-5	99.8%	None established TWA: 2mg/m³
		1310-73-2	0.2%	

Hazards Identification	
WARNING! CORROSIVE! HARMFUL IF SWALLOWED. CAUSES BURNS TO SKIN AND EYES.	
Section 3	
	0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
	Health
	Flammability
	Physical Hazard
	Personal Protection
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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.	
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 necessary.	

Fire Fighting Measures	
Nonflammable liquid. When heated to decomposition, emits toxic fumes of Na ₂ O 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

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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.	

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.	

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.	

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 ₂ O = 1): 1.011 at 20°C Percent volatile (%): not available Molecular formula: Mixture Molecular weight: Mixture

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.	

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	

Ecological Information	
Section 12 Not available.	

Disposal Considerations	
Section 13 Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.	

Transport Information	
Section 14 UN number: 1824 Shipping name: Sodium hydroxide solution Hazard Class: 8 Packing group: PG III Exceptions: Ltd Qty. ≤4L	

Regulatory Information	
Section 15 TSCA 8(b) Inventory: Water; Sodium hydroxide. DSCL (EEC) R36/37/38-irritating to eyes, respiratory system and skin.	

Other Information	
Section 16 The Material Safety Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Lab-Aids, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation and verification. The data should not be confused with local, state, federal regulations, or insurance mandates, and CONSTITUTE NO WARRANTY. Any use of these data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond Lab-Aids, Inc. and may be beyond your knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).	