SDS No.: SS0580

Section 1 Chemical Product and Company Information

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scientific	80 Northwest Blvd. Nashua, NH 03063 (800) 225-3739

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

Product SODIUM HYDROXIDE, 1 MOLAR (1N) SOLUTION

Synonyms Sodium Hydroxide, Water Solution (1M) Section 2 Hazards Identification

Signal word: DANGER

Pictograms: GHS05

Target organs: Respiratory tract, gastrointestinal tract, eyes, skin.



GHS Classification: Skin. Corr. (Category 1B)

GHS Label information: Hazard statement:

H314: Causes severe skin burns and eye damage.

Precautionary statement: P260: Do not breathe mist/vapours/spray P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P310: Immediately call a POISON CENTER or doctor/physician. P363: Wash contaminated clothing before reuse. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with all local, state and federal regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 3	Composition / Information on	Ingredients			
Chemical Name		CAS #	%	EINECS	
Water Sodium hydroxide		7732-18-5 1310-73-2	96% 4%	231-791-2 215-185-5	
Section 4	First Aid Measures				

INGESTION: MAY BE FATAL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SEVERE DAMAGE. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES SEVERE BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical, water spray, alcohol foam. Can react with carbon dioxide to form sodium carbonate.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume. Contact with metals can generate hydrogen gas.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure Controls / Personal Protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits:	Sodium hydroxide	STEL: C 2 mg/m ³	TWA: 2 mg/m ³	STEL: C 2 mg/m ³		

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator

Section 9 Appearance: Clear Odor: No odor.								
	Physical & Chemical Prop	erties						
Odor threshold: No pH: Data not availal Melting / Freezing p Boiling point: ~ 10 Flash point: Not fla	ot applicable. ole. point: ~ 0°C (~ 32°F) [water] 0°C (212°F) [water]	Flammability Explosion lim Vapor pressur Vapor density Relative dens	ate (Water = 1): < 1 (solid/gas): Not applica its: Lower / Upper: No re (mm Hg): 14 [water] (Air = 1): 0.7 [water] ity (Specific gravity): 1. : Complete in water.	applicable	Auto-ignit Decompos Viscosity: Molecular	ion temperature:	: Data not available	•
Section 10	Stability & Reactivity							
	d: Can react with carbon dioxide	to form sodium		ll not occur.				
-	rials: Metals, acids, organic con position products: Sodium oxic		•	and explosive hy	drogen gas.			
Section 11	Toxicological Information							
Germ cell mutager Carcinogenity: Da NTP: No componen IARC: No componen OSHA: No componen OSHA: No componer STOT-single expos STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: May be Ingestion: May be I Skin: May be harm Eyes: Causes eye I Signs and symptor	t of this product present at levels nt of this product present at level ent of this product present at level ity: Data not available soure: Data not available posure: Data not available Data not available	greater than or s greater than or ls greater than o remely destructiv ses skin burns. mation and eder	requal to 0.1% is identifient or equal to 0.1% is identifient we to the tissue of the mu	ed as probable, po ied as a carcinoge cous membranes inflammation and d	ssible or confi n or potential and upper res edema of the	irmed human carcir carcinogen by OSF spiratory tract. bronchi, pneumonil	łA.	
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.