SAFETY DATA SHEET

Section 1	Chemical Product and Company Information	
	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, ANHYDROUS	
Synonyms	Caustic Soda	
Section 2	Hazards Identification	
GHS Classif Skin. Corr. ((GHS Label i	: GHS05 ns: Respiratory tract, gastrointestinal tract, eyes, skin.	 Precautionary statement: P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P331+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+P331+P333: 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	
Sodium hydroxide		1310-73-2	96-100%	215-185-5	
Section 4	First Aid Measures	1			

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: Flood with water, taking care not to splash or scatter. Avoid carbon dioxide as it reacts exothermically with this material.

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: Contact with metals can generate hydrogen gas. Contact with water produces intense heat and highly irritating and corrosive mist. Hot or molten material will react violently with water liberating heat and causing splashing. Contact with water may generate sufficient heat to ignite combustible materials.

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: 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 dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

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

Section 8	Exposure Controls / Personal Protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Odor: No odor. Odor threshold: Da pH: 13.0 - 14.0 Melting / Freezing p Boiling point: 1390 Flash point: Not app Section 10 Chemical stability: Conditions to avoid	oint: 318°C (604°F) °C (2534°F) olicable. Stability & Reactivity Stable	Evaporation r Flammability Explosion lim Vapor pressur Vapor density Relative densi	rate (=1): Not applicat (solid/gas): Data not av its: Lower / Upper: No re (mm Hg): 1 mm Hg ((Air = 1): Not applicabl ity (Specific gravity): 2. : 29.6 @ 0°C (32°F) in v	vailable. ot applicable. @ 739°C e. .13 @ 25°C (77°F)	Auto-igniti Decompos Viscosity: Molecular 1	oefficient: (n-octan ion temperature: N sition temperature: Not applicable. formula: NaOH weight: 40.00	
Odor: No odor. Odor threshold: Da pH: 13.0 - 14.0 Melting / Freezing p Boiling point: 1390 Flash point: Not app Section 10 Chemical stability: Conditions to avoid	ta not available. oint: 318°C (604°F) 'C (2534°F) Jlicable. Stability & Reactivity Stable	Flammability Explosion lim Vapor pressur Vapor density Relative dens	(solid/gas): Data not av its: Lower / Upper: No re (mm Hg): 1 mm Hg (/ (Air = 1): Not applicabl ity (Specific gravity): 2.	vailable. ot applicable. @ 739°C e. .13 @ 25°C (77°F)	Auto-igniti Decompos Viscosity: Molecular 1	on temperature: N sition temperature: Not applicable. formula: NaOH	lot applicable.
Chemical stability: Conditions to avoid	Stable						
Conditions to avoid							
•	: Deliquescent material. Abso ials: Metals, acids, organic co osition products: Sodium ox	orbs moisture from ompounds, organic	c nitro compounds.	oon dioxide to form		nate.	
Section 11	Toxicological Informatio	n			_		
Section 11	Toxicological informatio	n					
Carcinogenity: Dat NTP: No component IARC: No component OSHA: No component Reproductive toxici STOT-single expose STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: May be harmfu Eyes: Causes eye b Signs and symptom edema, burning sens and upper respirator Additional informat	of this product present at leve t of this product present at leve nt of this product present at leve the second state of the second ty: Data not available Data not available Data not available Data not available ects: armful if inhaled. Material is e: armful if swallowed. ul if absorbed through skin. Ca urns. Causes severe eye burn so for exposure: Spasm, infla station, cough, wheezing, laryny y tract, eyes, and skin. ion: RTECS #: WB4900000	els greater than or vels greater than o xtremely destruction uses skin burns. Ins. Immation and eder gitis, shortness of	r equal to 0.1% is identified or equal to 0.1% is identified ve to the tissue of the mu ma of the larynx, spasm,	ed as probable, pos fied as a carcinoger ucous membranes a inflammation and e	ssible or confir n or potential o and upper resp edema of the b	rmed human carcino carcinogen by OSHA piratory tract. pronchi, pneumonitis	s, pulmonary
Section 12	Ecological Information						
Toxicity to daphnia Toxicity to algae: No Persistence and de Mobility in soil: No	gradability: No data available	ates: Immobilization Bioaccum PBT and v cannot be exclude	on EC50 - Daphnia - 40.3 nulative potential: No da vPvB assessment: No d	ata available data available	r disposal.		
	delines are intended for the		alog-size quantities on	ly. Federal regula	ations may a	pply to empty cont	tainer. State and/or loca
regulations may be	different. Dispose of in ac						
Section 14	Transport Information	2 "	and the state of the second state				
UN/NA number:	Packing	group:		le Quantity: 1,00 Guide # 154	00 lbs (454 ł	kg) Marin	ne pollutant: No
	ned quantity equal to or lea			-			
Exceptions: Lim		, in the second s					
Hazard class: 8 Exceptions: Lim Section 15 A chemical is considered	Ited quantity equal to or lease Regulatory Information d to be listed if the CAS number for		n is on the Inventory list.				
Exceptions: Lim Section 15	Regulatory Information d to be listed if the CAS number for		n is on the Inventory list.	RCRA code	DSL	NDSL	WHMIS Classification
Exceptions: Lim Section 15 A chemical is considered	Regulatory Information d to be listed if the CAS number for	or the anhydrous form		RCRA code D002	DSL Listed	NDSL Not listed	WHMIS Classification

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.