Section

SAFETY DATA SHEET

1	Chemical	Produ	ct and	Company	Identification
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HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

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CHEMTREC 24 Hour Emergency USA Phone Number (800) 424-9300 1 703-741-5500 (from anywhere in the world).

For laboratory and industrial use only. Not for drug, food or household use.

SODIUM HYDROXIDE, ANHYDROUS Product Synonyms Caustic Soda Section 2 **Hazards Identification** Signal word: DANGER Precautionary statement: Pictograms: GHS05 P260: Do not breathe dust Target organs: Respiratory tract, gastrointestinal tract, eyes, skin. 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): Take off immediately all contaminated GHS Classification: clothing. Rinse skin with water/shower. Skin. Corr. (Category 1A) P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for Serious Eye Damage/Eye Irritation (Category 1) breathing P310: Immediately call a POISON CENTER or doctor. GHS Label information. Hazard statement: P363: Wash contaminated clothing before reuse. H314: Causes severe skin burns and eye damage. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations. Hazards not otherwise classified: Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

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

ERG: Emergency Response Guidebook.

Form 06/2015

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 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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9	Dr.	onortios					
Section 9 Appearance: Soli	Physical & Chemical Pro id white beads or pellets.		ate (= 1): Not applical		Partition of	oofficient: (n. or	stanol / water): Data not availa
Odor: No odor. Odor threshold: pH: 13.0 - 14.0	Data not available. j point: 318°C (604°F) 90°C (2534°F)	Flammability Explosion lim Vapor pressu 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 : 29.6 @ 0°C (32°F) in 1	vailable. ot applicable. @ 739°C e. .13 @ 25°C (77°F)	Auto-igniti Decompos Viscosity: Molecular	on temperature	: Not applicable. re: Data not available.
Section 10	Stability & Reactivity						
Chemical stabilit	y: Stable bid: Deliquescent material. Abs		ous polymerization: W n air. Can react with carl		sodium carbo	nate.	
Incompatible mat	t erials: Metals, acids, organic co	ompounds, organi	c nitro compounds.				
Hazardous decor	nposition products: Sodium ox	kide. Reacts with	metals to form flammabl	e and explosive hyd	lrogen gas.		
Section 11	Toxicological Informatio	'n					
Serious eye dam Respiratory or si Germ cell mutag Carcinogenity: E NTP: No compone IARC: No compon OSHA: No compon Reproductive too STOT-single exp STOT-repeated e Aspiration hazar Potential healtho Inhalation: May be Skin: May be han Eyes: Causes eye Signs and sympt edema, burning se and upper respiral Additional inform	ent of this product present at leve eent of this product present at leve nent of this product present at leve ticity: Data not available osure: Data not available tropsure: Data not available d: Data not available d: Data not available effects: e harmful if inhaled. Material is e e harmful if swallowed. mful if absorbed through skin. Ca e burns. Causes severe eye burn coms of exposure: Spasm, infla ensation, cough, wheezing, laryn tory tract, eyes, and skin. nation: RTECS #: WB4900000	evere eye irritation lable els greater than or els greater than o vels greater than o vels greater than o xtremely destructi auses skin burns. is.	- 24 h equal to 0.1% is identifie requal to 0.1% is identifi or equal to 0.1% is identifi 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 of and upper resp edema of the b	rmed human card carcinogen by OS piratory tract. pronchi, pneumo	SHA.
Section 12	Ecological Information						
Toxicity to daphn Toxicity to algae: Persistence and Mobility in soil:	degradability: No data available	e Bioaccum PBT and v cannot be exclude	on EC50 - Daphnia - 40.3 nulative potential: No d /PvB assessment: No	ata available data available	disposal.		
	guidelines are intended for the		alog-size quantities on	ly Federal regula	ations may a	pply to empty o	container. State and/or locs
	be different. Dispose of in ac						
Section 14	Transport Information (US DOT / CANA	DA TDG)				
UN/NA number		group:	•	le Quantity: 1,00 Guide # 154	00 lbs (454 l	kg) Ma	arine pollutant: No
Hazard class:	imited quantity equal to or le	33 than Try					
Hazard class: Exceptions: L Section 15	imited quantity equal to or le Regulatory Information						
Hazard class: Exceptions: L Section 15 A chemical is consider	imited quantity equal to or le Regulatory Information ared to be listed if the CAS number for	or the anhydrous form			Del	NDO	
Hazard class: Exceptions: L Section 15	imited quantity equal to or le Regulatory Information ered to be listed if the CAS number fo onent		n is on the Inventory list. CERLCA (RQ) 1,000 lbs (454 kg)	RCRA code D002	DSL Listed	NDSL Not listed	CA Prop 65 This product does not contain any chemicals known to the Stat of California to cause cancer or reproductive toxicity.

IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure,