CAUSTIC POTASH SOLUTION

	CAUTIONARY RESP		4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Lye Potassium hydroxide solution Sinks and mixes wi		Colorless Odorless with water.	 4.1 Flash Point: Not flammable 4.2 Flammable Limits in Air: Not flammable 4.3 Fire Extinguishing Agents: Not pertine 4.4 Fire Extinguishing Agents Not to Be 	7.1 Grades of Purity: 45-50% 7.2 Storage Temperature: Ambient or elevated 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open		
Wear rubbe	e away. AVOID CONTACT WIT or overclothing (including gloves) health and pollution control ager er intakes.		Used: Not pertinent 4.5 Special Hazards of Combustion Products: Not pertinent 4.6 Behavior in Fire: Not pertinent	7.5 IMO Pollution Category: C 7.6 Ship Type: 3 7.7 Barge Hull Type: 3		
Fire	Not flammable.		 4.7 Auto Ignition Temperature: Not flammable 4.8 Electrical Hazards: Not pertinent 	8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Corrosive material 8.2 49 CFR Class: 8		
Exposure Water Pollution	or milk. DO NOT INDUCE VOMITING.	y of water. and flush with plenty of water. CONSCIOUS, have victim drink water IN VERY LOW CONCENTRATIONS. vater intakes. officials.	4.9 Burning Rate: Not flammable 4.10 Adiabatic Flame Temperature: Curren not available 4.11 Stoichometric Air to Fuel Ratio: Not pertinent 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 5. CHEMICAL REACTIVITY 5.1 Reactivity with Vater: None 5.2 Reactivity with Common Materials:	8.3 49 CFR Package Group: II 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue) Bit Hazard (Blue) Category Classification Health Hazard (Blue) Bit Hazard (Blue)		
1. CORRECTIVE Dilute and d Stop discha		2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: 5; Caustic 2.2 Formula: KOH-H-O 2.3 IMO/IND Designation: 8.0/1814 2.4 DOT ID No: 1814 2.5 CAS Registry No: 1310-58-3 2.6 NAERG Guide No: 154 2.7 Standard Industrial Trade Classification: 52264	Attacks wool, leather and some metals such as aluminum, tim, lead and zinc to produce flarmnable hydrogen gas. Separate from easily ignitible materials 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Dilute with water and rinse with dilute acid such as acetic acid. 5.5 Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertine	 9.2 molecular weight, Not perturbed 9.3 Boiling Point at 1 atm: >266°F = >130°C = >403°K 9.4 Freezing Point: Not perturbed 9.5 Critical Temperature: Not perturbed 9.6 Critical Temperature: Not perturbed 		
rubber side rubber or rub coverails. (3.2 Symptoms Folik 3.3 Treatment of Ex water, then induce vomi 3.4 TLV-TWA: Not ii 3.5 TLV-STEL: Not Ii 3.6 TLV-Ceiling: 2 n 3.7 Toxicity by Inge 3.8 Toxicity by Inge 3.9 Chronic Toxicit 3.10 Vapor (Gas) Irr 3.11 Liquid or Solid	shields; long-sleeved cotton shi ber-coated canvas gloves. (S material will run down the outsid Trouser cuffs should be worn ou owing Exposure: Causes seve xposure: (Act quickly)) EYES: rinse with dilute vinegar (acetic ting. Call physician at once, ev isted. (Bisted. mg/m ³ stion: Carde 2; oral rat LDso = lation: Currently not available. y: None Characteristics: Svore eskin i	d hat and cose-fitting safety goggles equipped with to r jacket with buttoned collar and buttoned sleeves; itri sleeves should be buttoned over the gloves so that .) Rubber safety-toe-shoes or boots and cotton iside of boots.) Rubber apron. e burns of eyes, skin, and mucous membranes. lush with water for at least 15 min. SKIN: flush with acid). INGESTION: give water and milk. Do NOT in when injury seems to be slight.	 6.1 Aquatic Toxicity: 80 ppm/24 hr/mosquito fish/TL_w/fresh water (These figures are for 100% potassium hydroxide.) 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): No 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 	 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 9.12 Latent Heat of Vaporization: Not pertinent 9.13 Heat of Combustion: Not pertinent 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Ocution: (est.) – 17 Btu/lb = –10 cal/g = –0.4 X 10⁵ J/kg 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 35.3 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available 		
contact and 3.12 Odor Threshol 3.13 IDLH Value: No 3.14 OSHA PEL-TW 3.15 OSHA PEL-Ceil 3.17 EPA AEGL: No	t listed. / A: Not listed. EL: Not listed. ling: Not listed.			NOTES		

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
68	90.509	35 40 45 50 55 60 65 70 75 80 85 90 95 100	0.652 0.654 0.657 0.660 0.663 0.665 0.668 0.671 0.677 0.679 0.682 0.685 0.685 0.685		N O T E R T I N E N T		N O T E R T I N E N T

	9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F) Pounds per 100 pounds of water Temperature (degrees F) Pounds per square inch Temperature (degrees F) Pounds per cubic foot Temperature (degrees F)	British thermal unit per pound-F	
M N	N OT PERTINENT	