

## Water Guard Inc. (WGI) SAFETY DATA SHEET

Effective Date: May 22, 2015 Revision Date:

I. Product and Company Information								
Product Name(s):	Caustic Soda Solution (10% - 50%)	Synonym:	Caustic, Alkali, Lye, Caustic Lye, Soda Lye, Liquid Caustic.					
Chemical Name:	Sodium Hydroxide	CAS Number:	1310-73-2					
Manufacturer's Name:	:	Emergency	Emergency Contacts:					
Water Guard Inc.		Afterhours	Afterhours (PERS)1-800-633-8253					
P.O. Box 2226								
Wilson, N.C. 27894								
Customer Service: 1-80	0-872-7665							
Web Site www.watergu	<u>uardinc.com</u>							

II. Hazard Identification							
OSHA HCS / GHS Classification(s):			Hazard Statement(s):				
Skin Corrosion, Category 1A			Causes severe skin burns.				
Serious Eye Damage, (	Category 1		Causes serious eye damage.				
Corrosive to Metals, C	ategory 1		May be corrosive to metals.				
Acute toxicity oral, Ca	tegory 4		Harmful if swallowed.				
Acute Aquatic Hazard	, Category 3		Harmful to aquatic life.				
Signal Word:	Precautionar	y Statement(s):					
Danger	Prevention:	Wash affected body part t					
Symbol(s):		Wear protective gloves/eg	ye protection/ face protection and clothing.				
A A		Do not breathe mist or vapor.					
		Do not eat, drink or smoke when using this product.					
(不 家) ( )		Keep in original container					
		Avoid release to the envir					
	Response:	IF SWALLOWED: Rinse m medical advice.	outh. Do not induce vomiting. Immediately seek				
		IF ON SKIN: Take off imm	ediately all contaminated clothing. Rinse skin				
		with water. Continue rins	ing. Wash contaminated clothing before reuse.				
			sly with water for several minutes. Remove				
			and easy to do so. Continue rinsing.				
		l =	son to fresh air and keep comfortable for				
		breathing.					
		Immediately call a physician.					
		Keep in original container					
		For Specific treatment: Se	e First Aid section IV.				

III. Composition / Information on Ingredients							
Chemical Name: CAS Reg #'s %							
Sodium Hydroxide	1310-73-2	10-50					
Water 7732-18-5 Balance							

IV. First Aid Measures						
<b>Eyes:</b> Immediately flush eyes with running water for at least 15 minutes, keeping eyelic open. Remove any contact lenses. Seek medical attention.						
Dermal / Skin:	Immediately remove contaminated clothing and wash exposed areathoroughly with soap and water for at least 15 minutes. Seek medical attention.					
Inhalation:	Move to fresh air immediately. If breathing is difficult, give oxygen. Seek medical attention.					
Ingestion:	If swallowed, DO NOT induces vomiting. Rinse mouth, seek medical attention immediately.					

V. Fire Fighting Measures							
NEDA Hagand Dating	Health (Blue)   Fire (Red)   Reactivity (Yellow)		Special Instructions (White)				
NFPA Hazard Rating:	3	0	1	None			
NFPA Hazard Classification: 0 = Least 1=Slight 2= Moderate 3= High 4= Extreme							
Extinguishing Media: Use extinguishing media appropriate for surrounding fire.							
Special Firefighting Wear NIOSH-approved Self-contained breathing apparatus. Use water spray to keep							
Procedure:	containers cool and to knock down fumes.						

VI. Accidental Release Measures					
Precaution if	Steps should be taken to contain spilled liquids and prevent discharges to streams				
Spilled or Released:	or sewer systems.				
<b>Neutralizing Chemicals:</b>	Dilute Acid.				

	VII. Handling and Storage						
Handling:	Handle all chemicals with respect. Keep separated from incompatible substances. Handle only with equipment, materials and supplies specified by their manufacturer as being compatible and appropriate for use with this product. Use caution when combining with water; DO NOT add water to caustic; ALWAYS add caustic to water while stirring to minimize heat generation.						
Storage:	Use black iron, mild steel, cast iron or stainless steel for bulk storage. Do not store below 45°F/7°C. Storage temperature of 70°F to 100°F (21°C - 38°C) is recommended. Do not store this material near food, animal feed or drinking water. Store in well ventilated area. Store away from excessive heat and from reactive materials. Keep container tightly closed when not in use.						

VIII. Exposure Control / Personal Protective Equipment								
<b>Component Workpl</b>	Component Workplace Control Parameters:							
<b>Components:</b>	CAS	S-No.	No. Value Parameters Basis					
Sodium Hydroxide	131	10-73-2	TWA	2.0mg/m <sup>3</sup>	OSHA			
<b>Engineering Controls</b>	:	Provide e	xhaust v	entilation or ot	ner engineering controls to keep the airborne			
					neir respective threshold limit value.			
General Hygiene:		Practice good personal hygiene after using this material, especially before eating,						
		drinking,	smoking	g, or using the to	ilet.			
<b>Personal Protection</b>	ı Eqı	ipment:						
Eye:		Use chem	ical spla	sh goggles and	face shield. Eye protection worn must be			
	compatible with respiratory protection system employed.							
Skin:	Chemically resistant gloves should be worn whenever this material is handled.							
		Gloves should be removed and replaced immediately if there is any indication of						
		degradation or chemical breakthrough.						

Respiratory:	None required under normal conditions. When conditions warrant a respirator, use						
	NIOSH approved respirator and cartridge.						
Other Protective Items:	Where splash is p	ossible, full chemically	resistant protective clothing	g and boots are			
	required. Ensure that eyewash stations and safety showers are proximal to the						
	work-station location.						
	Health (Blue) Flammability (Red) Physical Hazard (Yellow) PPE (White)						
<b>HMIS Classification:</b>	3 0 1 See Above						
Hazard Classifi	Hazard Classification: 0 = Minimal 1=Slight 2= Moderate 3= Serious 4= Severe						

IX. Physical and Chemical Properties								
Physical State:	Liquid	pH:	14					
Appearance:	Clear	Molecular Weight:	40 for NaOH					
Odor:	No distinct odor	Odor Threshold:	No data available					
Specific Gravity:(H <sub>2</sub> O=1)	1.11 - 1.53 @60°F/15.6°C	Weight per Gallon:	9.27 - 12.76 @60°F/15.6°C					
Vapor Density: (Air=1)	Similar to water	Vapor Pressure:	Similar to water					
Boiling Point:	230°F to 291°F 110°C to 114°C	Freezing / Melting Point:	-26°F to 59°F -32°C to -15°C					
Lower Explosive Limit:	Not Applicable	Upper Explosive Limit:	Not Applicable					
Flash Point:	Not Applicable	Autoignition Temp:	Not Applicable					
Solubility in water:	100%							
Other:								

X. Stability and Reactivity Data						
Chemical Stability:	Product is stable under normal or expected use.					
Conditions To Avoid:	Reacts violently with strong acids. Do not mix with other chemicals. Corrosive to aluminum, tin, zinc, copper and most alloys in which they are present including brass and bronze. Corrosive to steels at elevated temperatures above 104°F (40°C)					
Incompatible Materials:	Avoid contact with the following: Oxidizing agents, Acids, Phosphorus, Aluminum, Zinc, or Tin. Initiates or catalyzes violent polymerization of Acetaldehyde, Acrolein, or Acrylonitrile.					
Hazardous products of Decomposition:	Contact with metals (aluminum, zinc, tin) and sodium tetrahydroborate liberates hydrogen gas.					

XI. Toxicological Information										
Routes of Entry:	es of Entry: \Bigsize Eyes \Bigsize Skin \Bigsize Ingestion \Bigsize Inhalation									
Sign and symptoms	of Expos	ure:	May caus	e irrita	tion	to eyes, skin	and r	espiratory	passa	ages.
Eye Contact:	Causes s	evere ey	e burns.							
Ingestion:	Causes of	digestive	tract burn	s. Harn	ıful	if swallowed.				
Skin Contact:	Causes s	Causes severe skin burns.								
Inhalation:	May cau	se irritat	ion to the i	respira	tory	system.				
Carcinogenicity:	NPT	Not Liste	ed	IARC	1	Not Listed		OSHA	ı	Not Regulated
Ingredient Name	Species Test Period Results									
Sodium Hydroxide	•	Rabbit 1350 mg/kg dermal LD50					LD50			
Comments:		•	•		•			•		

XII. Ecological Information							
Ingredient Name	Species	Test	Period	Results			
Sodium Hydroxide	Ceriodaphnia dubia	40mg/L	48 hrs	EC50			
Comments:							

XIII. Disposal Considerations									
Waste Disposal:	Alv	Always dispose of material in accordance with local, state, and federal regulations.							
XIV. Transportation Information									
Proper Shipping Na	ame: So	Sodium hydroxide solution							
DOT Classification	: 8	8							
<b>Identification Num</b>	ber: UN	1824 I	Packing Group:		II	Other Labels:	Corrosive		
XV. Regulatory Information									
Inventory St	US Regulations:								
U. S. TSCA	Yes	SARA 302	2 TPQ No	ot Listed					
Europe EINECS	Yes	SARA 304 RQ		ot Listed					

Canadian DSL Yes SARA 313 List Not Listed Yes 1,000 lbs Japan ENCS CERCLA (RQ) Korean KECI Yes RCRA 261.33 Not Listed (D002 (Corrosive) if the pH of the waste is  $\geq$ 12.5) Philippines PICCS Yes **CWA 117** Yes Australian AICS Yes China IECSC Yes SARA 311/312 ⊠ Acute [ ☐ Fire ☐ Release of Pressure ☐ Reactive **International Regulations: Other Regulations:** Canada WHMIS Corrosive California PROP 65 No **EINECS** 215-185-5

XVI. Other Information				
NSF Certification:	Yes			
Other:				
<b>Revision Notes:</b>				
MSDS Replacements:	WGI MSDS 014 Caustic Soda Solution (All Grades)			

## **IMPORTANT**

Although the information contained is offered in good faith, SUCH INFORMATION IS EXPRESSLY GIVEN WITHOUT ANY WARRANTY (EXPRESS OR IMPLIED) OR ANY GUARANTEE OF ITS ACCURACY OR SUFFICIENCY and is taken at the user's sole risk. User is solely responsible for determining the suitability of use in each particular situation. WGI specifically DISCLAIMS ANY LIABILITY WHATSOEVER FOR THE USE OF SUCH INFORMATION, including without limitation any recommendation which user may construe and attempt to apply

which may infringe or violate valid patents, licenses, and/or copyright.