


Section 1: Identification	
Product Name: GreenClean® Alkaline Cleaner	Product Type/Description: Alkaline Cleaning Agent
Recommended Use/ Use Restrictions: Alkaline Cleaning Detergent / For Commercial Use	Other Means of Identification: Sodium Hydroxide Solution
Manufacturer: BioSafe Systems LLC 22 Meadow Street, East Hartford, CT 06108 Telephone Number: (888-273-3088)	Emergency Number: 800-424-9300 (CHEMTREC)

Section 2: Hazard Identification		
<u>GHS Classification (As Concentrate)</u> Skin Corrosion: Category 1B Serious Eye Damage: Category 1	<u>Hazard Statements: (As Concentrate)</u> H302: Harmful if swallowed H313: Causes severe skin burns and eye damage H335: May cause respiratory track irritation	<u>Pictograms:</u> <div style="text-align: center;">  </div> <p style="text-align: center;">Signal Word: DANGER</p>
Precautionary Statements:		
<u>General:</u> P101: If medical advice is needed, have product container or label at hand P102: Keep out of reach of children P103: Read label before use. <u>Prevention:</u> P234: Keep only in original container P260: Do not breathe dusts or mist P262: Do not get in eyes, on skin or on clothing P264: Wash thoroughly after handling P280: Wear protective gloves, clothing, eye protection, face protection	<u>Response:</u> P301+P330+P331: If SWALLOWED: Rinse mouth. Do not induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing. P310: Immediately call a POISON CENTER/doctor. P321: For specific treatments see FIRST AID section on SDS or label P390: Absorb spillage to prevent material damage <u>Storage:</u> P405: Store locked up P420: Store away from Incompatible materials <u>Disposal</u> P501 Dispose of contents/container in accordance with local/regional/national/international regulations	
Other Regulations HMIS: Health – 3, Flammability – 0, Physical Hazard – 1, Personal Protection – D		

Section 3: Composition/Information on Ingredients		
<u>Components:</u>	<u>CAS-No:</u>	<u>% Concentration by Weight:</u>
Sodium Hydroxide	1310-73-2	<10%
Sodium Tripolyphosphate	7758-29-4	<3%
Surfactant Blend		Proprietary

Section 4: First-aid Measures	
Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.. Seek immediate medical attention
Skin Contact:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention if symptoms occur. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse
Ingestion	Wash out mouth with water if person is conscious and alert. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Obtain medical attention immediately if ingested. Do not use mouth-to-mouth method if victim ingested the substance. Do not leave victim unattended.
Inhalation:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. If breathing is difficult give oxygen. Call poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1.800.222.1222 for emergency treatment information.
Note to Physician:	Persons with pre-existing skin disorders or impaired respiratory or pulmonary function may be at increased risk to the effects of this substance. Treat symptomatically and supportively.

Section 5: Fire-fighting Measures	
Suitable Extinguishing Media:	Use alcohol-resistant foam, carbon dioxide, water or dry chemical spray
Unsuitable Extinguishing Media:	None Known
Combustion Products:	Non-combustible;
Unusual Fire and Explosion Hazards:	Non-combustible. Under fire conditions, toxic, corrosive fumes may be emitted
Protective Equipment for Firefighters:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Substance is noncombustible.

Section 6: Accidental Release Measures	
Personal Precautions:	Ventilate enclosed areas. Avoid breathing vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Emergency Procedures	Keep unauthorized personnel away. Dike spill using absorbent or impervious materials such as earth, sand or clay. Dike or retain dilution water or water from firefighting for later disposal. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus or respirator and appropriate personal protection (rubber boots, safety goggles, and chemical resistant gloves)
Environmental Precautions	Prevent spill from entering waterways
Methods and Material for Containment and Cleaning up	Exercise caution during neutralization as considerable heat may be generated. Neutralize small spill area with a 5% sodium bisulfate solution. Flush neutralized spill with copious amounts of water. Transfer to a chemical water container for disposal in accordance with local regulations.

Section 7: Handling and Storage	
Handling:	Do not get on skin or in eyes. Avoid breathing vapors and mists. Do not ingest. Handle and open container with care. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water.
Storage:	Store in a dry, well-ventilated place. Store locked up. Keep away from incompatible materials. Ventilate enclosed areas, keep container tightly closed. Store at a temperature below 85 degrees F.
Incompatible Materials:	Ether, ammonia, acids, reducing agents, oxidizable materials, combustible materials (such as wood, cloth), organic materials, heavy materials such as iron and copper and their alloys, dirt, detergents. magnesium, aluminum, tin, manganese, zinc, and nitro compounds.

Section 8: Exposure Controls/Personal Protection

Components with workplace control parameters			
Component	ACGIH	NIOSH	OSHA
Sodium Hydroxide	TWA; 2 mg/m ³	TWA; 2 mg/m ³	TWA; 2 mg/m ³
Engineering Controls		Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	
Personal Protection Equipment	Respiratory	NIOSH approved respirator, if conditions warrant or if vapors, mists or aerosols are generated at or above OSHA TWA values	
	Eye/Face Protection	Safety glasses	
	Hands	Compatible chemical-resistant gloves	
	Skin/Body	Wear protective clothing	
	General Hygienic Practices	Do not eat, drink, or smoke when using this product. Wash thoroughly after handling Avoid breathing fumes/mist/vapors. Remove and wash contaminated clothing before reuse	

Section 9: Physical and Chemical Properties

Appearance: liquid, lt. straw	Odor: Odorless	pH: ~ 13.6
Melting Point: No data available	Freezing Point: No data available	Boiling Point: No data available
Flash Point: Not Relevant	Flammability: Not flammable	Flammable Limits: No data available
Vapor Pressure: No data available	Specific Gravity: 1.06 (8.84 lbs/gal)	Solubility(ies): Completely Miscible
Partition Coefficient n- octanol/water: No data available	Auto-ignition Temperature: No data available	Decomposition Temperature: No data available

Section 10: Stability and Reactivity

Stability:	Stable under normal conditions
Conditions to Avoid	Stability decreases with concentration, heat, light exposure, decrease in pH and contamination with heavy metals such as nickel, cobalt, copper and iron.
Incompatible materials	Ether, ammonia, acids, reducing agents, oxidizable materials, combustible materials (such as wood, cloth), organic materials, heavy materials such as iron and copper and their alloys, dirt, detergents. magnesium, aluminum, tin, manganese, zinc, and nitro compounds.
Hazardous Decomposition Products	Sodium oxides

Section 11: Toxicological Information

Acute Toxicological Data:	Oral: Not Determined	Dermal: Not Determined
Inhalation: Not Determined	Primary Skin irritation: severe irritant.	Primary Eye irritation: irritating, corrosive.
Likely Routes of Exposure: Inhalation, eye contact, skin contact		
Carcinogenicity	IARC: not listed NTP: not listed OSHA: not listed	


Section 12: Ecological Information

Ecotoxicity	Avoid release into the environment
Persistence and degradability	No data found for product.
Bioaccumulation potential	No data found for product
Mobility in Soil	No data found for product
Other adverse effects	This product is toxic to fish. Do not discharge into lakes, streams, ponds, or public waterways unless in accordance with NPDES permit. For guidelines contact the regional office of the U.S. Environmental Protection Agency.

Section 13: Disposal Considerations	
Waste From Residues and Unused Product	Dispose of in accordance with Federal, State and local regulations.
Contaminated Container Disposal	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14: Transport Information						
	UN Number	UN Proper Shipping Name	Hazard Class (Subsidiary)	Label (Subsidiary)	Packing Group	
US DOT	1760	Corrosive Liquids n.o.s. (sodium hydroxide)	8	Corrosive	II	
Canada (TDG)	1760	Corrosive Liquids n.o.s. (sodium hydroxide)	8	Corrosive	II	
Additional Transport Information: Transport in accordance with local, state, and federal regulations						

Section 15: Regulatory Information			
TSCA Inventory List: Yes		US EPA CERCLA RQ: 1,000 lbs	
SARA Title III Section Extremely Hazardous Substance: Not Listed		Section 304 EHS RQ: Not Listed	Section 302 TPQ: Not Listed
SARA Title III Sec. 311/312: Not Listed		Hazard category: NA	
US. EPA EPCRA Section 313 listed: Not Listed		Threshold quantity (processed or manufactured): NA	Threshold quantity (otherwise used): NA
Canadian WHIMIS Classification	Category E		
California Prop 65	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.		

Section 16: Other Information
<p>To the extent of our knowledge, the information herein is accurate as of the date of this document. However, neither BioSafe Systems nor any of its affiliates make any warranty, expressed or implied, or accept any liability in connection with the information or its use. The information is for use by technically skilled persons at their own discretions and risk. This is not a license or a patent. The user alone must finally determine suitability of any information or material for any contemplated use, the manner or use and whether any patents are infringed.</p> <div style="text-align: center; margin: 20px 0;">  </div> <p>For additional information on GreenClean Alkaline Cleaner, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com. ©2014 Copyright BioSafe Systems, LLC. ®GreenClean Alkaline Cleaner is a registered trademark of BioSafe Systems, LLC. Always read and follow label directions. Issuing Date: 5/15 Revision Number: r2</p>