

Form #:	SDS-031
Revision Date:	08/21/2018
Revision #:	03
Supersedes Date:	05/01/2015

Section 1: Identification			
Product Name:	GreenClean® Alkaline Cleaner	Product Type / Description:	Alkaline Cleaning Agent
Recommended Use:	Commercial Cleaning Detergent	Other Means of Identification:	Sodium Hydroxide Solution
Use Restrictions:	It is a violation of federal law to use this product in a manner inconsistent with its labeling.		
Manufacturer:	BioSafe Systems, LLC 22 Meadow Street East Hartford, CT 06108	EPA Registration #:	N/A
Telephone Number:	1-888-273-3088	Canada PMRA Registration #:	N/A
Emergency Number: 1-800-424-9300 (CHEMTREC)			

Section 2: Hazard Identification	
GHS Classification	Hazard Statements
Skin Corrosion: Category 1B Serious Eye Damage: Category 1	H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H335: May cause respiratory irritation.
Pictograms	Signal Word
	DANGER
Precautionary Statements	
General	Response
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.	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: Move 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.
Prevention	Storage / Disposal
P234: Keep only in original container. P260: Do not breathe fumes, mist or vapors. 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.	P405: Store locked up. P406: Store in corrosive resistant container, never use metal containers. P420: Store away from incompatible materials. P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition / Information on Ingredients		
Components	CAS-No	% Composition (w/w)
Sodium Hydroxide	1310-73-2	10.0%
Sodium Tripolyphosphate	7758-29-4	3.0%
Proprietary Surfactant Blend	-	87.0%

Section 4: First-Aid Measures	
Eye Contact:	Hold eye(s) open and rinse cautiously with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye(s). Call a poison control center or doctor for treatment advice.
Skin Contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.
Ingestion:	Call poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Inhalation:	Move person to fresh air. If person is not breathing, call 911. Call poison control center or doctor for treatment advice.

Form #:	SDS-031
Revision Date:	08/21/2018
Revision #:	03
Supersedes Date:	05/01/2015

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:	None known, not combustible.
Unusual Fire and Explosion Hazards:	Product is not flammable but during a fire, product can emit toxic, corrosive fumes.
Protective Equipment for Firefighters:	Do not enter fire area without proper protective equipment, including respiratory protection. During a fire, irritating and highly toxic gases may be generated by thermal decomposition. Use water spray to keep fire-exposed containers cool.

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 entry to sewers and public waters. Avoid release to the environment.
Methods and Material for Containment and Clean-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°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 - 8 hours.	TWA: 2 mg/m ³ - 8 hours.
Engineering Controls:	Ensure adequate ventilation. Emergency eye wash stations should be available in the immediate vicinity of any potential exposure.		
General Hygienic Practices:	Do not eat, drink or smoke during use.		
Personal Protective Equipment:	Protective clothing, protective goggles, gloves, face shield.		
Respiratory Protection:	Use NIOSH-approved air-purifying or supplied air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.		
Eye / Face Protection:	Chemical goggles or face shield.		
Hands:	Chemical resistant gloves.		
Skin / Body:	Wear suitable protective clothing.		

Section 9: Physical and Chemical Properties

Appearance:	Light yellow liquid.	Odor:	Odorless.	Odor Threshold:	Not available.
pH:	13.6	Specific Gravity:	1.06 g/cm ³	Viscosity:	Not available.
Melting Point:	Not available.	Freezing Point:	Not available.	Boiling Point:	Not available.
Flash Point:	Not available.	Flammability:	Not available.	Flammability Limits:	Not available.
Vapor Pressure:	Not available.	Vapor Density:	Not available.	Solubility:	Complete.
Evaporation Rate:	Not available.	Auto-Ignition Temperature:	Not available.	Decomposition Temperature:	Not available.
Relative Density:	Not available.	Partition Coefficient n-octanol / water:	Not available.		

Form #:	SDS-031
Revision Date:	08/21/2018
Revision #:	03
Supersedes Date:	05/01/2015

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 LD50:	Not available.
Dermal LD50:	Not available.
Inhalation LC50:	Not available.
Likely Routes of Exposure:	Inhalation, eye contact, skin contact.
Symptoms and Effects	
Condition	Acute Effects
Eye Contact:	Causes serious eye damage.
Skin Contact:	Causes severe skin burns.
Inhalation:	May cause respiratory tract irritation.
Ingestion:	Harmful if swallowed.

Section 12: Ecological Information	
Ecotoxicity:	Not available.
Persistence and Degradability:	Not available.
Bioaccumulation Potential:	Not available.
Mobility in Soil:	Not available.
Other Adverse Effects:	Avoid release to the environment.

Section 13: Disposal Considerations	
Waste from Residues and Unused Product:	Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
Contaminated Container Disposal:	Do not reuse or refill this container. Triple rinse empty containers with clean water. Clean and empty containers are to be recycled or placed in the trash.

Section 14: Transport Information						
	UN Number	UN Proper Shipping Name	Hazard Class (Subsidiary)	Label (Subsidiary)	Packing Group	Marine Pollutant
US DOT	1760	Corrosive Liquids n.o.s. (sodium hydroxide)	8	Corrosive	II	NO
CAN TDG	1760	Corrosive Liquids n.o.s. (sodium hydroxide)	8	Corrosive	II	NO
Special Precautions:	Transport in accordance with local, state and federal regulations.					

Section 15: Regulatory Information						
TSCA Inventory List:	Yes	US EPA CERCLA Hazardous Substances:		Sodium Hydroxide 1000 lbs.		
SARA Title III Sec. 302/303	Not applicable.		Sec. 302 TPQ:		Not applicable.	
SARA Title III Sec. 311/312	Not applicable.		Hazard Category:		Not applicable.	
US EPA EPCRA Sec. 313	Not applicable.		CAA Threshold Qty:		Not applicable.	
NFPA Rating	Health:	3	Flammability:	0	Reactivity:	1
HMIS Rating	Health:	3	Flammability:	0	Physical:	1
CAN WHMIS Classification	E – Corrosive					
California Prop 65	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.					

Form #:	SDS-031
Revision Date:	08/21/2018
Revision #:	03
Supersedes Date:	05/01/2015

Section 16: Other Information

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 relating to the information or its use. The information is for use by technically skilled persons at their own discretion 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. Always read and follow label directions.



GreenClean® Alkaline Cleaner is a registered trademark of BioSafe Systems, LLC.

For additional information, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com

© 2018 BioSafe Systems, LLC.

Revision Date: 08/21/2018

Current Revision Number: 03

Key to Abbreviations

ACGIH - American Conference of Governmental Industrial Hygiene	TWA - Time-Weighted Averages are based on 8h/day, 40h/week exposures
NIOSH - National Institute of Occupational Safety and Health	STEL - Short Term Exposure Limits are based on 15-minute exposures
OSHA - Occupational Safety and Health Administration	STEV - Short Term Exposure Value
EHS - Environmental Health and Safety	PEL - Permissible Exposure Limit
DOT - Department of Transportation	CAN TDG - Canadian Transportation of Dangerous Goods
EPA - Environmental Protection Agency	TSCA - Toxic Substances Control Act
TPQ - Threshold Planning Quantity	RQ - Reportable Quantity
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act	SARA - Superfund Amendments and Reauthorization Act
NFPA - National Fire Protection Association	HMIS - Hazardous Materials Identification System
WHMIS - Workplace Hazardous Materials Information System (Canada)	EPCRA - Emergency Planning and Community Right-to-Know Act