


SAFETY DATA SHEET (SDS)

GreenClean® Alkaline Cleaner Canada

Form #:	SDS-083
Revision Date:	23/01/2020
Revision #:	01
Supersedes Date:	NA

Section 1: Identification			
Product Name:	GreenClean® Alkaline Cleaner Canada	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	PMRA Registration #:	NA
Telephone Number:	1-888-273-3088	Emergency Number: 1-800-424-9300 (CHEMTREC)	

Section 2: Hazard Identification	
GHS Classification	Hazard Statements
Skin Corrosion/Irritation: Category 1B Serious Eye Damage/Eye Irritation: Category 1 Acute Toxicity: Oral: Category 4	H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage.
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. P363: Wash contaminated clothing before reuse.
Prevention	Storage / Disposal
P260: Do not breathe mist, spray, vapors. P264: Wash thoroughly after handling. P273: Avoid release to the environment. P280: Wear eye protection, face protection, protective clothing, protective gloves.	P405: Store locked up. 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)
Water	7732-18-5	81,0 – 82,0%
Sodium Hydroxide	1310-73-2	5,0%
Proprietary Surfactant Blend	-	10,0 – 11,0%
Sodium Tripolyphosphate	7758-29-4	3,0%

Section 4: First-Aid Measures	
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin Contact:	Immediately call a poison center or doctor/physician. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Ingestion:	Do NOT induce vomiting. Immediately call a poison center or doctor/physician. Rinse mouth.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
Notes to Physician:	Material is corrosive and probable mucosal damage may contraindicate the use of gastric lavage.

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Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	Carbon dioxide. Dry powder. Water spray. Foam. Sand.
Unsuitable Extinguishing Media:	Do not use a heavy water stream.
Combustion Products:	None known.
Unusual Fire and Explosion Hazards:	Reacts with (some) metals: release of highly flammable gases/vapors (hydrogen). Thermal decomposition generates corrosive vapors.
Protective Equipment for Firefighters:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. In case of fire, stop leak if safe to do so. When cooling/extinguishing: no water in the substance. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6: Accidental Release Measures

Personal Precautions:	Eliminate ignition sources. Ensure adequate ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
Emergency Procedures:	Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact. Wash contaminated clothes. Evacuate unnecessary personnel. Keep containers closed.
Environmental Precautions:	Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
Methods and Material for Containment and Clean-Up:	Take up liquid spill into inert absorbent material. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Section 7: Handling and Storage

Handling:	Do not get in eyes, on skin, or on clothing. Remove contaminated clothing immediately. Use corrosion proof equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, spray, vapors.
Storage:	Keep container closed when not in use. Store in original container. Keep only in the original container in a cool, well ventilated place away from incompatible materials. Store below 30°C away from direct sunlight and sources of ignition.
Incompatible Materials:	Strong acids. Metals. Metal powders.

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 / emergency showers should be available in the immediate vicinity of any potential exposure.		
General Hygienic Practices:	Do not eat, drink or smoke during use. Wash hands immediately after handling the product.		

Personal Protective Equipment

Respiratory Protection:	Respiratory protection not required in normal conditions.
Eye / Face Protection:	Chemical goggles or face shield.
Hand Protection:	Chemical resistant gloves.
Skin / Body Protection:	Wear suitable protective clothing.

Section 9: Physical and Chemical Properties

Physical State:	Liquid.	Colour:	Colourless to light yellow.	Odour:	None.
Melting Point / Freezing Point:	NA	Boiling Point:	NA	Flammability:	NA
Flammability Limits:	NA	Flash Point:	NA	Auto-Ignition Temperature:	NA
Decomposition Temperature:	NA	pH:	12,0 – 14,0	Kinematic Viscosity:	NA
Solubility:	Complete.	Partition Coefficient n-octanol / water:	NA	Vapor Pressure:	NA
Relative Density:	1,07 – 1,10	Vapor Density:	NA	Particle Characteristics:	NA

Section 10: Stability and Reactivity

Reactivity:	Reactive with incompatible materials.
Stability:	Stable under normal conditions.
Conditions to Avoid:	Incompatible materials. Direct sunlight. Extremely high or low temperatures.
Incompatible Materials:	Metals. Strong acids. Strong oxidizers.
Hazardous Decomposition Products:	Sodium oxide. Thermal decomposition generates corrosive vapors.

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Section 11: Toxicological Information

Acute Toxicological Data			
Oral LD50 Rat:	NA	Dermal LD50 Rabbit:	NA
		Inhalation LC50 Rat:	NA
Symptoms and Effects			
Condition	Acute Effects	Chronic (Delayed) Effects	
Eye Contact:	Causes serious eye damage.	None.	
Skin Contact:	Causes severe skin burns.	None.	
Inhalation:	May cause respiratory tract irritation.	None.	
Ingestion:	Harmful if swallowed.	None.	

Section 12: Ecological Information

Ecotoxicity:	Not available.
Persistence and Degradability:	Not available.
Bioaccumulative Potential:	Not available.
Mobility in Soil:	Not available.
Results of PBT & vPvB:	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
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 containers. Triple rinse empty containers with clean water. Clean and empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14: Transport Information

UN Number	UN Proper Shipping Name	Hazard Class (Subsidiary)	Packing Group	IATA	Marine Pollutant
DOT 1760	Corrosive liquids, n.o.s (Sodium Hydroxide solution)	8	II	Permitted for transport by air.	No
TDG 1760	Corrosive liquids, n.o.s (Sodium Hydroxide solution)	8	II		No
IMDG 1760	Corrosive liquids, n.o.s (Sodium Hydroxide solution)	8	II		No
Special Precautions:	NA				

Section 15: Regulatory Information

DSL Inventory List		Controlled Products Regulation (CPR)			
Sodium Hydroxide	Yes	This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.			
Environmental Emergencies					
Component	Canada - Environmental Emergencies - Part 1 Substances - Substances Likely to Explode - Minimum Threshold Quantities	Canada - Environmental Emergencies - Part 1 Substances - Substances Likely to Explode - Minimum Mixture Concentrations	Canada - Environmental Emergencies - Part 2 Substances - Substances Hazardous When Inhaled - Minimum Threshold Quantities	Canada - Environmental Emergencies - Part 2 Substances - Substances Hazardous When Inhaled - Minimum Mixture Concentrations	
Sodium Hydroxide	NA	NA	NA	NA	
Canadian National Pollutant Release Inventory					
Sodium Hydroxide	NA				

Section 16: Other Information

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
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For additional information, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com
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NFPA 704 Rating	Health: 3	Flammability: 0	Reactivity: 1	Special:	None.
HMIS Rating	Health: 3	Flammability: 0	Physical: 1	PPE:	Recommended. (B)
PPE:	