


Form #:	SDS-079
Revision Date:	03/04/2019
Revision #:	02
Supersedes Date:	02/15/2019

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

Section 2: Hazard Identification	
<b>GHS Classification</b>	<b>Hazard Statements</b>
Skin Corrosion/Irritation: Category 1A Serious Eye Damage/Eye Irritation: Category 1 Hazardous to the aquatic environment, acute hazard: Category 3	H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H402: Harmful to aquatic life.
<b>Pictograms</b>	<b>Signal Word</b>
	<b>DANGER</b>
Precautionary Statements	
<b>General</b>	<b>Response</b>
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. P363: Wash contaminated clothing before reuse.
<b>Prevention</b>	<b>Storage / Disposal</b>
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)
Sulphuric Acid	7664-93-9	35.0%
Water	-	58.0%
Proprietary Surfactant Blend	-	7.0%

Section 4: First-Aid Measures	
<b>Eye Contact:</b>	Immediately rinse with plenty of water for at least 15 minutes and get medical attention immediately
<b>Skin Contact:</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.
<b>Ingestion:</b>	Do NOT induce vomiting. Immediately call a poison center or doctor/physician. Rinse mouth.
<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

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Section 5: Fire-Fighting Measures	
<b>Suitable Extinguishing Media:</b>	Carbon dioxide. Dry powder. Water spray. Foam. Sand.
<b>Unsuitable Extinguishing Media:</b>	Do not use a heavy water stream.
<b>Combustion Products:</b>	None known.
<b>Unusual Fire and Explosion Hazards:</b>	Emits toxic fumes (sulphur oxides, hydrogen sulphide gas) under fire conditions.
<b>Protective Equipment for Firefighters:</b>	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	
<b>Personal Precautions:</b>	Eliminate ignition sources. Ensure adequate ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
<b>Emergency Procedures:</b>	Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact. Wash contaminated clothes. Evacuate unnecessary personnel. Keep containers closed.
<b>Environmental Precautions:</b>	Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
<b>Methods and Material for Containment and Clean-Up:</b>	Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

Section 7: Handling and Storage	
<b>Handling:</b>	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.
<b>Storage:</b>	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.
<b>Incompatible Materials:</b>	Bases, halides, organic material, carbides, chlorates, fulminates, nitrates, picrates, cyanides, cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorus (III) oxide, powdered metals.

Section 8: Exposure Controls / Personal Protection			
Components with Workplace Control Parameters			
Component	ACGIH	NIOSH	OSHA
Sulfuric Acid	TWA: 0.2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> - 8 hours.	TWA: 1 mg/m <sup>3</sup> - 8 hours.
<b>Engineering Controls:</b>	Ensure adequate ventilation. Emergency eye wash stations in the immediate vicinity of any potential exposure.		
<b>General Hygienic Practices:</b>	Do not eat, drink or smoke during use.		
<b>Personal Protective Equipment:</b>	Gloves. Safety glasses. Protective clothing. Chemical resistant apron.		
<b>Respiratory Protection:</b>	Respiratory protection not required in normal conditions.		
<b>Eye / Face Protection:</b>	Chemical goggles or face shield.		
<b>Hands:</b>	Chemical resistant gloves.		
<b>Skin / Body:</b>	Wear suitable protective clothing.		

Section 9: Physical and Chemical Properties					
<b>Physical State:</b>	Liquid.	<b>Colour:</b>	Clear.	<b>Odour:</b>	Odourless.
<b>Melting Point / Freezing Point:</b>	NA	<b>Boiling Point:</b>	NA	<b>Flammability:</b>	Non-flammable.
<b>Flammability Limits:</b>	NA	<b>Flash Point:</b>	NA	<b>Auto-Ignition Temperature:</b>	NA.
<b>Decomposition Temperature:</b>	NA	<b>pH:</b>	< 1.0	<b>Kinematic Viscosity:</b>	NA
<b>Solubility:</b>	Complete.	<b>Partition Coefficient n-octanol / water:</b>	NA	<b>Vapor Pressure:</b>	NA
<b>Relative Density:</b>	NA	<b>Vapor Density:</b>	NA	<b>Particle Characteristics:</b>	NA

Section 10: Stability and Reactivity	
<b>Reactivity:</b>	Not available.
<b>Stability:</b>	Stable under normal conditions.
<b>Hazardous Reactions:</b>	None known.
<b>Conditions to Avoid:</b>	Moisture.
<b>Incompatible Materials:</b>	Bases, halides, organic material, carbides, chlorates, fulminates, nitrates, picrates, cyanides, cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorus (III) oxide, powdered metals.
<b>Hazardous Decomposition Products:</b>	Sulphur oxides, hydrogen sulphide gas.

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### Section 11: Toxicological Information

#### Acute Toxicological Data

Oral LD50:	2140 mg/kg (rat)	Dermal LD50:	Not available.	Inhalation LC50:	2 hours - 510 mg/m <sup>3</sup> (rat)
Likely Routes of Exposure:	Inhalation, eye contact, skin contact.				
<b>Symptoms and Effects</b>					
Condition	Acute Effects			Chronic (Delayed) Effects	
Eye Contact:	Eye burns, watering eyes.			None.	
Skin Contact:	Burning, itching, redness, inflammation upon exposed tissue.			None.	
Inhalation:	Burning, choking, coughing, shortness of breath.			None.	
Ingestion:	Nausea, vomiting, diarrhea, burning, severe pain.			None.	

### Section 12: Ecological Information

Ecotoxicity:	LC50 fishes: 42 mg/l (96 h; <i>Gambusia affinis</i> ), 49 mg/l (48 h; <i>Lepomis macrochirus</i> ), EC50 Daphnia: 29 mg/l (24 h; <i>Daphnia magna</i> )
Persistence and Degradability:	Not available.
Bioaccumulative 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)	Packing Group	Transport in Bulk according to IMO Instruments	Marine Pollutant
US DOT	1760	Corrosive liquids, n.o.s (Sulfuric Acid solution)	8	II	Not applicable.	NO
CAN TDG	1760	Corrosive liquids, n.o.s (Sulphuric Acid solution)	8	II	Not applicable.	NO
Special Precautions:	Transport in accordance with local, state and federal regulations.					

### Section 15: Regulatory Information

NFPA Rating	Health: 3	Flammability: 0	Reactivity: 2	Special: W (Reacts with water in an unusual or dangerous manner)
HMIS Rating	Health: 3	Flammability: 0	Physical: 1	PPE: Recommended.
CAN WHMIS Classification	E – Corrosive, D1A - Material causing other toxic effects (VERY TOXIC).			
TSCA Inventory List:	Yes	US EPA CERCLA Hazardous Substances:		Sulfuric Acid 1000 lbs.
SARA Title III Sec. 302/303	Sulfuric Acid		Sec. 302 TPQ:	Sulfuric Acid 1000 lbs.
SARA Title III Sec. 311/312	Sulfuric Acid	Hazard Category:	Acute Health	Sec. 304 EHS RQ: Sulfuric Acid 1000 lbs.
US EPA EPCRA Sec. 313	Not applicable. (not in aerosol form)		CAA Threshold Qty:	Not applicable.

### 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](http://www.biosafesystems.com)

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