


Form #:	SDS-076
Revision Date:	03/05/2019
Revision #:	04
Supersedes Date:	03/01/2019

Section 1: Identification			
Product Name:	GreenClean® Acid Cleaner	Product Type / Description:	Acidic Cleaning Agent
Recommended Use:	Commercial Cleaning Detergent	Other Means of Identification:	Sulfuric Acid 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	Emergency Number: 1-800-424-9300 (CHEMTREC)	
Telephone Number:	1-888-273-3088		

Section 2: Hazard Identification	
GHS Classification	Hazard Statements
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.
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. 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)
Sulfuric Acid	7664-93-9	35.0%
Water	-	58.0%
Proprietary Surfactant Blend	-	7.0%

Section 4: First-Aid Measures	
Eye Contact:	Immediately rinse with plenty of water for at least 15 minutes and get medical attention immediately
Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.
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.

Form #:	SDS-076
Revision Date:	03/05/2019
Revision #:	04
Supersedes Date:	03/01/2019

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:	Emits toxic fumes (sulfur oxides, hydrogen sulfide gas) under fire conditions.
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:	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

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:	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 ³	TWA: 1 mg/m ³ - 8 hours.	TWA: 1 mg/m ³ - 8 hours.
Engineering Controls:	Ensure adequate ventilation. Emergency eye wash stations in the immediate vicinity of any potential exposure.		
General Hygienic Practices:	Do not eat, drink or smoke during use.		
Personal Protective Equipment:	Gloves. Safety glasses. Protective clothing. Chemical resistant apron.		
Respiratory Protection:	Respiratory protection not required in normal conditions.		
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:	Clear, colorless liquid.	Odor:	Odorless.	Odor Threshold:	Not available.
pH:	< 1.0	Specific Gravity:	1.17 – 1.29 g/mL	Viscosity:	Not available.
Melting Point:	Not available.	Freezing Point:	Not available.	Boiling Point:	Not available.
Flash Point:	Not available.	Flammability:	Non-flammable.	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.	

Section 10: Stability and Reactivity

Stability:	Stable under normal conditions.
Conditions to Avoid:	Moisture.
Incompatible Materials:	Bases, halides, organic material, carbides, chlorates, fulminates, nitrates, picrates, cyanides, cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorus (III) oxide, powdered metals.
Hazardous Decomposition Products:	Sulfur oxides, hydrogen sulfide gas.

Form #:	SDS-076
Revision Date:	03/05/2019
Revision #:	04
Supersedes Date:	03/01/2019

Section 11: Toxicological Information

Acute Toxicological Data

Oral LD50:	2140 mg/kg (rat)	Dermal LD50:	Not available.	Inhalation LC50:	2 hours - 510 mg/m ³ (rat)
Likely Routes of Exposure:	Inhalation, eye contact, skin contact.				
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:	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.
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 (Sulfuric Acid solution)	8	Corrosive	II	NO
CAN TDG	1760	Corrosive liquids, n.o.s (Sulfuric Acid solution)	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:	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.		
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).					
California Prop 65	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.					

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.



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

© 2018 BioSafe Systems, LLC.

Revision Date: 03/05/2019

Current Revision Number: 04



SAFETY DATA SHEET (SDS)

GreenClean® Acid Cleaner

Form #:	SDS-076
Revision Date:	03/05/2019
Revision #:	04
Supersedes Date:	03/01/2019

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