

## Safety Data Sheet GreenClean Acid Cleaner

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### SECTION 1: Identification

#### 1.1 GHS Product identifier

Product name GreenClean Acid Cleaner

#### 1.2 Recommended Use

Commercial cleaning detergent

#### 1.3 Supplier's details

Name BioSafe Systems  
Address 22 Meadow Street  
East Hartford CT 06108 USA  
Telephone 1.888.273.3088

#### 1.4 Emergency phone number

CHEMTREC: 1-800-424-9300

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### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2024)

- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1
- Corrosive to metals, Cat. 1

#### 2.2 GHS label elements, including precautionary statements

##### Pictograms



##### Signal word

**Danger**

##### Hazard statement(s)

H314 Causes severe skin burns and eye damage  
H318 Causes serious eye damage  
H290 May be corrosive to metals

##### Precautionary statement(s)

P101 If medical advice is needed, have label at hand.  
P102 Keep out of reach of children  
P103 Read label before use.  
P220 Keep/Store away from incompatible/ combustible materials.  
P234 Keep only in original container.  
P260 Do not breathe fume/gas/mist/vapors/spray.  
P262 Do not get in eyes, on skin or on clothing  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

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P280  
P301+P330+P331  
P303+P361+P353

P304+P340  
P305+P351+P338

P321  
P363  
P405  
P501  
P390  
P406

Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Specific treatment see first aid section on this label.  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents according to state, local and federal regulations.  
Absorb spillage to prevent material damage.  
Store in a corrosive resistant container with a resistant inner liner.

## SECTION 3: Composition/information on ingredients

### 3.1 Mixtures

Component	Concentration
Sulfuric acid (CAS no.: 7664-93-9)	70 - 75 % (weight)
Phosphonic acid (HEDP) (CAS no.: 2809-21-4)	1 - 5 % (weight)

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice	Consult a physician, if you feel unwell. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor
In case of skin contact	Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation persists: Get medical advice/attention
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
If swallowed	Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation  
Symptoms/effects after skin contact : Burns  
Symptoms/effects after eye contact : Serious damage to eyes  
Symptoms/effects after ingestion : Burns

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Use water or water spray.

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### 5.2 Specific hazards arising from the chemical

Toxic fumes may be released.

### 5.3 Special protective actions for fire-fighters

Do not attempt to take action without suitable protective equipment. Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritating, corrosive and/or toxic gases. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection if necessary. Avoid breathing mist, vapors, or spray. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains and avoid releases to the environment.

### 6.3 Methods and materials for containment and cleaning up

Stop leak if you can do it without risk. Contain spillage, and then collect with inert absorbent material, (e.g. sand, diatomaceous earth) and place in non-metal container for disposal according to local, state, and federal regulations.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Do not breathe mist, vapors, or spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. See Section 8 for information on Personal Protective Equipment.

### 7.2 Conditions for safe storage, including any incompatibilities

Store locked up in original container. Store in a well ventilated place and keep cool. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children. This product should be used within 36 months of the date of manufacture.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

CAS: 7664-93-9 Sulfuric acid

NIOSH (US): 1 mg/m<sup>3</sup> REL inhalation; US/OSHA (US): 1 mg/m<sup>3</sup> PEL inhalation; 1 mg/m<sup>3</sup> TWA inhalation

### 8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures below recommended exposure limits.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Pictograms



#### Eye/face protection

Safety glasses.

#### Skin protection

Protective gloves.

#### Body protection

Wear protective clothing. Clothing with full length sleeves and pants should be worn.

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### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

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## SECTION 9: Physical and chemical properties

Physical state	Liquid
Appearance	Clear, colorless liquid.
Color	Colorless
Odor	Odorless
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	Not applicable.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	<1
Kinematic viscosity	No data available.
Solubility	Complete.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	10.7 lbs/gal
Relative vapor density	No data available.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2 Chemical stability

Stable under normal storage conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4 Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5 Incompatible materials

Sulfuric acid: Bases, Halides, Organic materials, Carbides, fulminates, Nitrates, picrates, Cyanides, Chlorates, alkali halides, Zinc salts, permanganates, e.g. potassium permanganate, Hydrogen peroxide, Azides, Perchlorates., Nitromethane, phosphorous, Reacts violently with: cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous(III) oxide, Powdered metals

### 10.6 Hazardous decomposition products

Sulfuric acid: Hazardous decomposition products formed under fire conditions. - Sulphur oxides

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## SECTION 11: Toxicological information

### Acute toxicity

Sulfuric acid

LD50 Oral - Rat - 2,140 mg/kg LC50 Inhalation - Rat - 510 mg/m3 - 2 h

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### **Skin corrosion/irritation**

Causes severe burns. Signs/symptoms may include intense burning, pain, blistering or blackened skin.

### **Serious eye damage/irritation**

Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, and blurred or hazy vision.

### **Respiratory or skin sensitization**

No data available.

### **Germ cell mutagenicity**

No data available.

### **Carcinogenicity**

Sulfuric acid

Result: The International Agency for Research on Cancer (IARC) has determined that occupational exposure to strong inorganic-acid mists containing sulfuric acid is carcinogenic to humans (group 1).

### **Reproductive toxicity**

No data available.

### **Specific target organ toxicity (STOT) - single exposure**

No data available.

### **Specific target organ toxicity (STOT) - repeated exposure**

No data available.

### **Aspiration hazard**

No data available.

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## **SECTION 12: Ecological information**

### **Toxicity**

Sulfuric acid

LC50 - *Gambusia affinis* (mosquito fish) - 42 mg/l - 96 h EC50 - *Daphnia magna* (water flea) - 29 mg/l - 24 h

### **Persistence and degradability**

No data available.

### **Bioaccumulative potential**

No data available.

### **Mobility in soil**

No data available.

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## **SECTION 13: Disposal considerations**

### **Product disposal**

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

### **Packaging disposal**

Dispose of as unused product. Do not reuse containers.

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### SECTION 14: Transport information

#### DOT (US)

UN Number: UN1760

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive liquids, n.o.s (Sulfuric Acid)

#### IMDG

UN Number: UN1760

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive liquids, n.o.s (Sulfuric Acid)

#### IATA

UN Number: UN1760

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive liquids, n.o.s (Sulfuric Acid)

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302:

Sulfuric acid

##### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard for: Sulfuric acid.

##### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Sulfuric acid

##### US EPA TSCA public inventory

Chemical name: Phosphonic acid, P,P'-(1-hydroxyethylidene)bis-

CAS number: 2809-21-4

Chemical name: Sulfuric acid

CAS number: 7664-93-9

##### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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### SECTION 16: Other information

#### 16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall BioSafe Systems be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if BioSafe Systems has been advised of the possibility of such damages.