

Safety Data Sheet GreenClean Alkaline Cleaner

SECTION 1: Identification

1.1 GHS Product identifier

Product name GreenClean Alkaline Cleaner

1.2 Recommended Use

Commercial cleaning detergent

1.2 Supplier's details

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

1.3 Emergency phone number

CHEMTREC: 1-800-424-9300

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
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 in accordance with local, state, 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
Sodium hydroxide (CAS no.: 1310-73-2)	5 - 10 % (weight)
Proprietary Surfactant Blend	5 - 10 % (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

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5.1 Suitable extinguishing media

Use water or water spray.

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.

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.

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS: 1310-73-2 Sodium hydroxide

Cal/OSHA (US): (C) 2 mg/m³ PEL inhalation [Sodium hydroxide]; NIOSH (US): (C) 2 mg/m³ REL inhalation [Sodium hydroxide]; US/OSHA (US): 2 mg/m³ PEL inhalation [Sodium hydroxide]

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.

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Skin protection

Protective gloves.

Body protection

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

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

Physical state	Liquid
Appearance	Clear, colorless liquid.
Color	Colorless to light yellow
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	12
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	8/8 lbs/gal
Relative vapor density	No data available.

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

Sodium hydroxide: caustic soda reacts with all the mineral acids to form the corresponding salts. It also reacts with weak-acid gases, such as hydrogen sulfide, sulfur dioxide, and carbon dioxide. All organic acids also react with sodium hydroxide to form soluble salts. Another common reaction of caustic soda is dehydrochlorination.

10.6 Hazardous decomposition products

Sodium hydroxide: Sodium oxides

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SECTION 11: Toxicological information

Acute toxicity

No data available.

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

No data available.

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.

SECTION 12: Ecological information

Toxicity

Sodium hydroxide

LC50 - *Gambusia affinis* (Mosquito fish) - 125 mg/l - 96 h, LC50 - *Oncorhynchus mykiss* (rainbow trout) - 45.4 mg/l - 96 h. EC50 - *Daphnia magna* (water flea) - 40.38 mg/l - 48 h, LC50 - *Poecilia reticulata* (guppy) - 196 mg/l - 96 h

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

SECTION 13: Disposal considerations

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 (Sodium Hydroxide)

IMDG

UN Number: UN1760

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive liquids, n.o.s (Sodium Hydroxide)

IATA

UN Number: UN1760

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive liquids, n.o.s (Sodium Hydroxide)

SECTION 15: Regulatory information

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

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard for: Sodium hydroxide.

US EPA TSCA public inventory

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

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.

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.