Section 1: Identification

Product Name: GreenClean® Alkaline Cleaner
Product Type/Description: Alkaline Cleaning Agent

Recommended Use/Use Restrictions: Alkaline Cleaning Detergent / For Commercial Use
Other Means of Identification: Sodium Hydroxide Solution

Manufacturer: BioSafe Systems LLC
22 Meadow Street, East Hartford, CT 06108
Telephone Number: (888-273-3088)
Emergency Number: 800-424-9300 (CHEMTREC)

Section 2: Hazard Identification

GHS Classification (As Concentrate)
Skin Corrosion: Category 1B
Serious Eye Damage: Category 1

Hazard Statements: (As Concentrate)
H302: Harmful if swallowed
H313: Causes severe skin burns and eye damage
H335: May cause respiratory track irritation

Pictograms:
Signal Word: DANGER

Precautionary Statements:

General:
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.

Prevention:
P234: Keep only in original container
P260: Do not breathe dusts or mist
P262: Do not get in eyes, on skin or on clothing
P264: Wash thoroughly after handling
P280: Wear protective gloves, clothing, eye protection, face protection

Response:
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: Remove 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.
P311: For specific treatments see FIRST AID section on SDS or label
P390: Absorb spillage to prevent material damage

Storage:
P405: Store locked up
P420: Store away from incompatible materials

Disposal:
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Other Regulations: HMIS: Health – 3, Flammability – 0, Physical Hazard – 1, Personal Protection – D

Section 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Components:</th>
<th>CAS-No:</th>
<th>% Concentration by Weight:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>Sodium Tripolyphosphate</td>
<td>7758-29-4</td>
<td>&lt;3%</td>
</tr>
<tr>
<td>Surfactant Blend</td>
<td></td>
<td>Proprietary</td>
</tr>
</tbody>
</table>
Section 4: First-aid Measures

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek immediate medical attention.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention if symptoms occur. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

**Ingestion**
Wash out mouth with water if person is conscious and alert. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Obtain medical attention immediately if ingested. Do not use mouth-to-mouth method if victim ingested the substance. Do not leave victim unattended.

**Inhalation:**
Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. If breathing is difficult, give oxygen. Call poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1.800.222.1222 for emergency treatment information.

**Note to Physician:** Persons with pre-existing skin disorders or impaired respiratory or pulmonary function may be at increased risk to the effects of this substance. Treat symptomatically and supportively.

Section 5: Fire-fighting Measures

**Suitable Extinguishing Media:** Use alcohol-resistant foam, carbon dioxide, water or dry chemical spray.

**Unsuitable Extinguishing Media:** None Known

**Combustion Products:** Non-combustible; Unusual Fire and Explosion Hazards: Non-combustible. Under fire conditions, toxic, corrosive fumes may be emitted.

**Protective Equipment for Firefighters:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Substance is noncombustible.

Section 6: Accidental Release Measures

**Personal Precautions:** Ventilate enclosed areas. Avoid breathing vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Emergency Procedures**
Keep unauthorized personnel away. Dike spill using absorbent or impervious materials such as earth, sand or clay. Dike or retain dilution water or water from firefighting for later disposal. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus or respirator and appropriate personal protection (rubber boots, safely goggles, and chemical resistant gloves).

**Environmental Precautions**
Prevent spill from entering waterways.

**Methods and Material for Containment and Cleaning up**
Exercise caution during neutralization as considerable heat may be generated. Neutralize small spill area with a 5% sodium bisulfate solution. Flush neutralized spill with copious amounts of water. Transfer to a chemical water container for disposal in accordance with local regulations.

Section 7: Handling and Storage

**Handling:** Do not get on skin or in eyes. Avoid breathing vapors and mists. Do not ingest. Handle and open container with care. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water.

**Storage:** Store in a dry, well-ventilated place. Store locked up. Keep away from incompatible materials. Ventilate enclosed areas, keep container tightly closed. Store at a temperature below 85 degrees F.

**Incompatible Materials:** Ether, ammonia, acids, reducing agents, oxidizable materials, combustible materials (such as wood, cloth), organic materials, heavy materials such as iron and copper and their alloys, dirt, detergents. magnesium, aluminum, tin, manganese, zinc, and nitro compounds.
Section 8: Exposure Controls/Personal Protection

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>TWA; 2 mg/m³</td>
<td>TWA; 2 mg/m³</td>
<td>TWA; 2 mg/m³</td>
</tr>
</tbody>
</table>

**Engineering Controls**

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Personal Protection Equipment**

**Respiratory**
NIO SH approved respirator, if conditions warrant or if vapors, mists or aerosols are generated at or above OSHA TWA values

**Eye/ Face Protection**
Safety glasses

**Hands**
Compatible chemical-resistant gloves

**Skin/ Body**
Wear protective clothing

**General Hygienic Practices**
Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Avoid breathing fumes/mist/vapors. Remove and wash contaminated clothing before reuse.

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid, lt. straw</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>13.6</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Relevant</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>n-Octanol/water Partition Coefficient</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.06 (8.84 lbs/gal)</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity

**Stability:**
Stable under normal conditions

**Conditions to Avoid:**
Stability decreases with concentration, heat, light exposure, decrease in pH and contamination with heavy metals such as nickel, cobalt, copper and iron.

**Incompatible materials:**
Ether, ammonia, acids, reducing agents, oxidizable materials, combustible materials (such as wood, cloth), organic materials, heavy materials such as iron and copper and their alloys, dirt, detergents, magnesium, aluminum, tin, manganese, zinc, and nitro compounds.

**Hazardous Decomposition Products:**
Sodium oxides

Section 11: Toxicological Information

**Acute Toxicological Data:**
Oral: Not Determined  
Dermal: Not Determined

**Inhalation:**
Not Determined

**Likely Routes of Exposure:**
Inhalation, eye contact, skin contact

**Carcinogenicity**
IARC: not listed  
NTP: not listed  
OSHA: not listed

Section 12: Ecological Information

**Ecotoxicity:**
Avoid release into the environment

**Persistence and degradability:**
No data found for product.

**Bioaccumulation potential:**
No data found for product

**Mobility is Soil:**
No data found for product

**Other adverse effects:**
This product is toxic to fish. Do not discharge into lakes, streams, ponds, or public waterways unless in accordance with NPDES permit. For guidelines contact the regional office of the U.S. Environmental Protection Agency.
Section 13: Disposal Considerations

<table>
<thead>
<tr>
<th>Waste From Residues and Unused Product</th>
<th>Dispose of in accordance with Federal, State and local regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contaminated Container Disposal</td>
<td>Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.</td>
</tr>
</tbody>
</table>

Section 14: Transport Information

<table>
<thead>
<tr>
<th>UN Number</th>
<th>UN Proper Shipping Name</th>
<th>Hazard Class (Subsidiary)</th>
<th>Label (Subsidiary)</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT</td>
<td>1760</td>
<td>Corrosive Liquids n.o.s. (sodium hydroxide)</td>
<td>8</td>
<td>Corrosive</td>
</tr>
<tr>
<td>Canada (TDG)</td>
<td>1760</td>
<td>Corrosive Liquids n.o.s. (sodium hydroxide)</td>
<td>8</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

Additional Transport Information: Transport in accordance with local, state, and federal regulations

Section 15: Regulatory Information

<table>
<thead>
<tr>
<th>TSCA Inventory List: Yes</th>
<th>US EPA CERCLA RQ: 1,000 lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 304 EHS RQ: Not Listed</td>
<td>Section 302 TPQ: Not Listed</td>
</tr>
<tr>
<td>SARA Title III Sec. 311/312: Not Listed</td>
<td>Hazard category: NA</td>
</tr>
<tr>
<td>US. EPA EPCRA Section 313 listed: Not Listed</td>
<td>Threshold quantity (processed or manufactured): NA</td>
</tr>
<tr>
<td>Threshold quantity (otherwise used): NA</td>
<td></td>
</tr>
<tr>
<td>Canadian WHIMIS Classification</td>
<td>Category E</td>
</tr>
<tr>
<td>California Prop 65</td>
<td>This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.</td>
</tr>
</tbody>
</table>

Section 16: Other Information

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