Section 1: Identification

Product Name: CalOx® pH
Recommended Use: pH and Water Hardness Adjuster
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
Telephone Number: 1-888-273-3088

Section 2: Hazard Identification

GHS Classification
Carcinogenicity: Category 1A

Hazard Statements
H350: May cause cancer.

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.

Response
P308 + P313: IF exposed or concerned: Get medical advice / attention.

Prevention
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P281: Use personal protective equipment as required.

Storage / Disposal
P405: Store locked up.
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No</th>
<th>% Composition (w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>70.0 – 90.0%</td>
</tr>
<tr>
<td>Quartz (SiO₂)</td>
<td>14808-60-7</td>
<td>&lt;2.0%</td>
</tr>
</tbody>
</table>

Section 4: First-Aid Measures

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact: Remove/take off contaminated clothing. Rinse skin with water/shower.
Ingestion: Rinse mouth with water. Never give anything by mouth to an unconscious person.
Inhalation: Remove victim to fresh air in case of accidental inhalation or dust or fumes from overheating or combustion. If symptoms persist, call a physician.

Notes to Physician: IARC: Group 1: Carcinogenic to humans
NTP: Crystalline silica (respirable size) as a known human carcinogen.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.
Unsuitable Extinguishing Media: None.
Combustion Products: None.
Unusual Fire and Explosion Hazards: None.
Protective Equipment for Firefighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
**Section 6: Accidental Release Measures**

<table>
<thead>
<tr>
<th>Personal Precautions</th>
<th>Wear Personal Protective Equipment during handling, evacuate unnecessary personnel from area.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Procedures</td>
<td>Users should remove clothing and PPE as soon as possible after contamination. Wash skin thoroughly.</td>
</tr>
<tr>
<td>Environmental Precautions</td>
<td>No special environmental precautions required.</td>
</tr>
<tr>
<td>Methods and Material for Containment and Clean-Up</td>
<td>Wipe up with absorbent materials and keep in suitable, closed containers. Dispose of contents and container in accordance with local and national regulations.</td>
</tr>
</tbody>
</table>

**Section 7: Handling and Storage**

<table>
<thead>
<tr>
<th>Handling</th>
<th>Personal Protective Equipment is recommended for handling to limit contact with substance.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>Keep container tightly closed in a dry and well-ventilated place.</td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>Acids.</td>
</tr>
</tbody>
</table>

**Section 8: Exposure Controls / Personal Protection**

### Components with Workplace Control Parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH</th>
<th>NIOSH TWA: 10 mg/m³ – 8 hour STEL: 5 mg/m³</th>
<th>OSHA TWA: 10 mg/m³ – 8 hour STEL: 5 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>Not applicable.</td>
<td>TWA: 10 mg/m³ – 8 hour STEL: 5 mg/m³</td>
<td>TWA: 10 mg/m³ – 8 hour STEL: 5 mg/m³</td>
</tr>
<tr>
<td>Quartz (SiO2)</td>
<td>TLV: 25 µg/m³</td>
<td>TWA: 50 µg/m³ – 8 hour</td>
<td>TWA: 50 µg/m³ – 8 hour</td>
</tr>
</tbody>
</table>

**Engineering Controls**: Eye wash station and emergency shower in the vicinity of usage.

**General Hygienic Practices**: Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Personal Protective Equipment**: Protective clothing, safety glasses, gloves.

**Respiratory Protection**: None needed in normal usage (liquid suspension).

**Eye / Face Protection**: Safety glasses / goggles.

**Hands**: Latex or nitrile gloves.

**Skin / Body**: Wear suitable protective clothing.

**Section 9: Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Appearance</th>
<th>White liquid suspension.</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Approx. 7</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight chalky.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability</td>
<td>Non-flammable.</td>
</tr>
<tr>
<td>Flammability Limits</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>23.4 hPa (20°C)</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Composition</td>
<td>n-octanol / water</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative Density</td>
<td>1.8 - 2.1 g/cm³</td>
</tr>
</tbody>
</table>

**Section 10: Stability and Reactivity**

- **Stability**: Stable under ordinary conditions of use and storage.
- **Conditions to Avoid**: No decomposition if stored and applied as directed.
- **Incompatible Materials**: Reacts with acids, forming carbon dioxide (CO₂). This displaces the oxygen in the air in closed spaces.
- **Hazardous Decomposition Products**: Not applicable.

**Section 11: Toxicological Information**

### Acute Toxicological Data

<table>
<thead>
<tr>
<th>Oral LD50</th>
<th>&gt; 5000mg/kg (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal LD50</td>
<td>Not available.</td>
</tr>
<tr>
<td>Inhalation LC50</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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

**Symptoms and Effects**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Acute Effects</th>
<th>Chronic (Delayed) Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Contact</td>
<td>May cause mild irritation.</td>
<td>None.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>May cause mild irritation.</td>
<td>None.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May cause respiratory tract irritation.</td>
<td>None.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed.</td>
<td>None.</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET (SDS)
CalOx® pH

Section 12: Ecological Information

Ecotoxicity: LC50 (Oncorhynchus mykiss (rainbow trout)): >10000mg/L 96 h; EC50 (Daphnia magna (Water flea)): > 1000mg/L 48 h; EC50 (Desmodesmus subspicatus (green algae)): >200mg/L 72 h

Persistence and Degradability: Not available.

Bioaccumulation Potential: Not available.

Mobility in Soil: Not available.

Other Adverse Effects: Not applicable.

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

<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>
<th>Marine Pollutant</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Not Regulated</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 15: Regulatory Information

- TSCA Inventory List: No
- US EPA CERCLA Hazardous Substances: Not applicable.
- Sec. 302 TPQ: Not applicable.
- SARA Title III Sec. 310/311: Not applicable.
- SARA Title III Sec. 311/312: US EPA EPCRA Sec. 313
- Hazard Category: Acute, Chronic Health.
- Sec. 304 EHS RQ: Not applicable.
- Threshold Qty: Not applicable.
- NFPA Rating: Health: 0, Flammability: 0, Reactivity: 0, Special: Not applicable.
- HMIS Rating: Health: 1, Flammability: 0, Physical: 0, PPE: Recommended.
- CAN WHMIS Classification: D2A – Materials Causing Other Toxic Effects (Very Toxic)
- California Prop 65: WARNING: This product can expose you to Silica (crystalline, respirable), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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
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Revision Date: 08/28/2018
Current Revision Number: 02

Key to Abbreviations

ACGIH - American Conference of Governmental Industrial Hygiene
NIOSH - National Institute of Occupational Safety and Health
OSHA - Occupational Safety and Health Administration
EHS – Environmental Health and Safety
DOT – Department of Transportation
EPA – Environmental Protection Agency
TPQ – Threshold Planning Quantity
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act
NFPA – National Fire Protection Association
WHMIS – Workplace Hazardous Materials Information System (Canada)

TWA – Time-Weighted Averages are based on 8h/day, 40h/week exposures
STEL – Short Term Exposure Limits are based on 15-minute exposures
STEV – Short Term Exposure Value
PEL – Permissible Exposure Limit
CAN TDG – Canadian Transportation of Dangerous Goods
TSCA – Toxic Substances Control Act
SARA – Superfund Amendments and Reauthorization Act
HMIS – Hazardous Materials Identification System
EPCRA – Emergency Planning and Community Right-to-Know Act