SAFETY DATA SHEET (SDS)
Calcis® Liquid Lime

Section 1: Identification

Product Name: Calcis® Liquid Lime

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

Emergency Number: 1-800-424-9300 (CHEMTREC)

Section 2: Hazard Identification

GHS Classification

Carcinogenicity: Category 1A

Signal Word

DANGER

Signal Word

H350: May cause cancer.

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.
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Section 6: Accidental Release Measures

Personal Precautions: Wear Personal Protective Equipment during handling, evacuate unnecessary personnel from area.

Emergency Procedures: Users should remove clothing and PPE as soon as possible after contamination. Wash skin thoroughly.

Environmental Precautions: No special environmental precautions required.

Methods and Material for Containment and Clean-Up: Wipe up with absorbent materials and keep in suitable, closed containers. Dispose of contents and container in accordance with local and national regulations.

Section 7: Handling and Storage

Handling: Personal Protective Equipment is recommended for handling to limit contact with substance.

Storage: Keep container tightly closed in a dry and well-ventilated place.

Incompatible Materials: Acids.

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>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

Appearance: White liquid suspension.

pH: Approx. 7

Melting Point: Not available.

Flash Point: Not available.

Vapor Pressure: 23.4 hPa (20°C)

Evaporation Rate: Not available.

Relative Density: 1.8 - 2.1 g/cm³

Partition Coefficient n-octanol / water: Not available.

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

Oral LD50: > 5000mg/kg (rat)

Dermal LD50: Not available.

Inhalation LC50: Not available.

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>
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Section 12: Ecological Information

Ecotoxicity:
LC50 (Onchorhynchus 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>
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<td></td>
</tr>
</tbody>
</table>

Not Regulated

Section 15: Regulatory Information

TSCA Inventory List: No

US EPA CERCLA Hazardous Substances: Not applicable.

Sec. 302 TPQ: Not applicable.

SARA Title III Sec. 302/303: Not applicable.

SARA Title III Sec. 311/312: Hazard Category: Acute, Chronic Health.

US EPA EPCRA Sec. 313: Not applicable.

NFPA Rating Health: 0 Flammability: 0 Reactivity: 0 Special: Not applicable.

H gastr Rating Health: 0 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
PEL – Permissible Exposure Limit
TDG – Canadian Transportation of Dangerous Goods
TSCA – Toxic Substances Control Act
SARA – Superfund Amendments and Reauthorization Act
HESIS – Hazardous Materials Identification System
EPCRA – Emergency Planning and Community Right-to-Know Act