


Form #:	SDS-039
Revision Date:	08/28/2018
Revision #:	02
Supersedes Date:	9/1/2015

Section 1: Identification					
Product Name:	CalOx [®] pH	Product Type / Description:	Micronized Liquid Lime		
Recommended Use:	pH and Water Hardness Adjuster	Other Means of Identification:	Liquid Calcium Carbonate		
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	EPA Registration #:	N/A	Canada PMRA Registration #:	N/A
Telephone Number:	1-888-273-3088	Emergency Number: 1-800-424-9300 (CHEMTREC)			

Section 2: Hazard Identification	
GHS Classification	Hazard Statements
Carcinogenicity: Category 1A	H350: May cause cancer.
Pictograms	Signal Word
	DANGER
Precautionary Statements	
General	Response
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.	P308 + P313: IF exposed or concerned: Get medical advice / attention.
Prevention	Storage / Disposal
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.	P405: Store locked up. P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition / Information on Ingredients		
Components	CAS-No	% Composition (w/w)
Limestone	1317-65-3	70.0 – 90.0%
Quartz (SiO ₂)	14808-60-7	<2.0%

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			
Component	ACGIH	NIOSH	OSHA
Limestone	Not applicable.	TWA: 10 mg/m ³ – 8 hour STEL: 5 mg/m ³	TWA: 10 mg/m ³ – 8 hour STEL: 5 mg/m ³
Quartz (SiO ₂)	TLV: 25 µg/m ³	TWA: 50 µg/m ³ – 8 hour	TWA: 50 µg/m ³ – 8 hour
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.	Odor:	Slight chalky.	Odor Threshold:	Not available.
pH:	Approx. 7	Specific Gravity:	Not available.	Viscosity:	Not available.
Melting Point:	Not available.	Freezing Point:	0°C (32°F)	Boiling Point:	100°C (212°F)
Flash Point:	Not available.	Flammability:	Non-flammable.	Flammability Limits:	Not available.
Vapor Pressure:	23.4 hPa (20°C)	Vapor Density:	Not available.	Solubility:	0.014 g/L in water 20°C
Evaporation Rate:	Not available.	Auto-Ignition Temperature:	Not available.	Decomposition Temperature:	>400°C
Relative Density:	1.8 - 2.1 g/cm ³	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 (CO ₂). 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			
Condition	Acute Effects	Chronic (Delayed) Effects	
Eye Contact:	May cause mild irritation.	None.	
Skin Contact:	May cause mild irritation.	None.	
Inhalation:	May cause respiratory tract irritation.	None.	
Ingestion:	May be harmful if swallowed.	None.	


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Section 12: Ecological Information	
Ecotoxicity:	LC50 (<i>Oncorhynchus mykiss</i> (rainbow trout)): >10000mg/L 96 h; EC50 (<i>Daphnia magna</i> (Water flea)): > 1000mg/L 48 h; EC50 (<i>Desmodesmus subspicatus</i> (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					
UN Number	UN Proper Shipping Name	Hazard Class (Subsidiary)	Label (Subsidiary)	Packing Group	Marine Pollutant
Not Regulated					

Section 15: Regulatory Information							
TSCA Inventory List:	No	US EPA CERCLA Hazardous Substances:			Not applicable.		
SARA Title III Sec. 302/303	Not applicable.			Sec. 302 TPQ:		Not applicable.	
SARA Title III Sec. 311/312	Quartz (SiO ₂)	Hazard Category:	Acute, Chronic Health.		Sec. 304 EHS RQ:	Not applicable.	
US EPA EPCRA Sec. 313	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
<p>According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations</p> <p>To the extent of our knowledge, the information herein is accurate as of the date of this document. However, neither BioSafe Systems nor any of its affiliates make any warranty, expressed or implied, or accept any liability relating to the information or its use. The information is for use by technically skilled persons at their own discretion and risk. This is not a license or a patent. The user alone must finally determine suitability of any information or material for any contemplated use, the manner or use and whether any patents are infringed. Always read and follow label directions.</p> <p style="text-align: center;"></p> <p>For additional information, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com</p> <p>© 2018 BioSafe Systems, LLC. Revision Date: 08/28/2018 Current Revision Number: 02</p>

Key to Abbreviations

ACGIH - American Conference of Governmental Industrial Hygiene	TWA - Time-Weighted Averages are based on 8h/day, 40h/week exposures
NIOSH - National Institute of Occupational Safety and Health	STEL - Short Term Exposure Limits are based on 15-minute exposures
OSHA - Occupational Safety and Health Administration	STEV - Short Term Exposure Value
EHS - Environmental Health and Safety	PEL - Permissible Exposure Limit
DOT - Department of Transportation	CAN TDG - Canadian Transportation of Dangerous Goods
EPA - Environmental Protection Agency	TSCA - Toxic Substances Control Act
TPQ - Threshold Planning Quantity	RQ - Reportable Quantity
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act	SARA - Superfund Amendments and Reauthorization Act
NFPA - National Fire Protection Association	HMIS - Hazardous Materials Identification System
WHMIS - Workplace Hazardous Materials Information System (Canada)	EPCRA - Emergency Planning and Community Right-to-Know Act