


Form #:	SDS-029
Revision Date:	08/20/2018
Revision #:	02
Supersedes Date:	2/1/2010

Section 1: Identification					
Product Name:	GreenClean [®] pH Up	Product Type / Description:	pH Adjuster		
Recommended Use:	pH Adjuster	Other Means of Identification:	Soda Ash, Sodium Carbonate		
Use Restrictions:	It is a violation of federal law to use this product in a manner inconsistent with its labeling.				
Distributor:	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
Eye Irritant: Category 2A	H319: Causes serious eye irritation.
Pictograms	Signal Word
	WARNING
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.	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P337 + P313: If eye irritation persists: Get medical advice/attention.
Prevention	Storage / Disposal
P264: Wash thoroughly after handling. P280: Wear protective gloves, clothing, eye protection, face protection.	P402: Store in a dry place. 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)
Soda Ash	497-19-8	100.0%

Section 4: First-Aid Measures	
Eye Contact:	Rinse immediately with plenty of water for at least 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
Skin Contact:	Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.
Ingestion:	Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a doctor/medical service if victim is unwell.
Inhalation:	Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
Notes to Physician:	Not applicable.

Section 5: Fire-Fighting Measures	
Suitable Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media:	Do not use a heavy water stream.
Combustion Products:	None.
Unusual Fire and Explosion Hazards:	Upon combustion CO and CO ₂ are formed. Reacts on exposure to water with some metals. CO ₂ generation occurs when mixed with acidic materials.
Protective Equipment for Firefighters:	Wear self-contained breathing apparatus for firefighting if necessary. Gloves. Safety glasses. Protective clothing. Dust cloud protection and heat/fire exposure: SCBA respirator.

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Section 6: Accidental Release Measures

Personal Precautions:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
Emergency Procedures:	Evacuate personnel to safe areas. Avoid breathing dust.
Environmental Precautions:	Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Violent exothermic reaction with some acids; release of harmful gases/vapors (carbon dioxide). Carbon dioxide is heavier than air and will collect in ducts, drains and low-lying areas. Prevent spreading in sewers.
Methods and Material for Containment and Clean-Up:	Prevent dust cloud formation. Scoop solid spill material into closed containers. Carefully collect the spill. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Section 7: Handling and Storage

Handling:	Avoid contact with skin and eyes. Use air conveying/mechanical systems for bulk transfer to storage. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.
Storage:	Store in original container. Keep in properly labeled containers. Keep container tightly closed.
Incompatible Materials:	Aluminum, powdered aluminum, and acids.

Section 8: Exposure Controls / Personal Protection

Components with Workplace Control Parameters

Component	ACGIH	NIOSH	OSHA
Soda Ash	Not applicable.	Not applicable.	Not applicable.
Engineering Controls:	Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.		
General Hygienic Practices:	Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.		
Personal Protective Equipment:	Gloves. Safety glasses.		
Respiratory Protection:	For nuisance exposures use type P95 particle respirator. For higher level protection use type OV/AG/P99 respirator cartridges. Use respirators and components tested and approved under NIOSH.		
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 crystalline powder.	Odor:	None.	Odor Threshold:	Not available.
pH:	11.6 in 5% solution	Specific Gravity:	2530 kg/m ³	Viscosity:	Not available.
Melting Point:	851°C (1564°F)	Freezing Point:	Not available.	Boiling Point:	1600°C (2912°F)
Flash Point:	Not available.	Flammability:	Non-flammable.	Flammability Limits:	Not available.
Vapor Pressure:	Not available.	Vapor Density:	Not available.	Solubility:	Soluble in water.
Evaporation Rate:	Not available.	Auto-Ignition Temperature:	>400°C / >752°F	Decomposition Temperature:	>1600°C / >2912°F
Relative Density:	Not available.	Partition Coefficient n-octanol / water:	Not available.		

Section 10: Stability and Reactivity

Stability:	Stable under ordinary conditions of use and storage.
Conditions to Avoid:	Exposure to air or moisture over prolonged periods.
Incompatible Materials:	Aluminum, powdered aluminum, and acids.
Hazardous Decomposition Products:	Hazardous polymerization does not occur.

Section 11: Toxicological Information

Acute Toxicological Data

Oral LD50:	2800 mg/kg (rat)	Dermal LD50:	>2000 mg/kg (rabbit)	Inhalation LC50:	2 hours - 2.30 mg/L (rat)
Likely Routes of Exposure:	Inhalation, eye contact, skin contact.				

Symptoms and Effects

Condition	Acute Effects	Chronic (Delayed) Effects
Eye Contact:	Causes severe irritation.	None.
Skin Contact:	May cause mild irritation.	Red, dry skin.
Inhalation:	May cause respiratory irritation.	Affection of the nasal septum.
Ingestion:	May cause nausea and vomiting.	None.


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Section 12: Ecological Information	
Ecotoxicity:	Freshwater Fish, <i>Lepomis macrochirus</i> , LC50 300 mg/L 96 h; Freshwater invertebrates, <i>Ceriodaphnia sp.</i> EC50 200-227 mg/L 48 h; Algae EC50 242 mg/L 5 days.
Persistence and Degradability:	Not available.
Bioaccumulation Potential:	Low potential for bioaccumulation.
Mobility in Soil:	Low potential for absorption in soil.
Other Adverse Effects:	Not applicable.

Section 13: Disposal Considerations	
Waste from Residues and Unused Product:	Remove waste in accordance with local and/or national regulations. Contact a licensed professional waste disposal service to dispose of this material. Different types of hazardous waste should not be mixed together if it will entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. Do not discharge into drains.
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:	Yes	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	Soda Ash.	Hazard Category:	Acute Health.		Sec. 304 EHS RQ:	Not applicable.	
US EPA EPCRA Sec. 313	Not applicable.			Threshold Qty:	Not applicable.		
NFPA Rating	Health: 2	Flammability: 0	Reactivity: 0	Special:	Not applicable.		
HMIS Rating	Health: 2	Flammability: 0	Physical: 0	PPE:	Recommended.		
CAN WHMIS Classification	C – Oxidizing Material, D2 - Materials causing other toxic effects						
California Prop 65	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.						

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: 08/20/2018 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