


Form #:	SDS-032
Revision Date:	08/21/2018
Revision #:	03
Supersedes Date:	04/01/2015

Section 1: Identification					
Product Name:	GreenClean [®] PRO	Product Type / Description:	Algaecide / Fungicide		
Recommended Use:	Pesticide, Water Treatment	Other Means of Identification:	Sodium Carbonate Peroxyhydrate, Sodium Percarbonate, SPC		
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 #:	70299-15	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
Oxidizing Solid: Category 2 Acute Toxicity (Oral): Category 4 Serious Eye Damage: Category 1	H272: May intensify fire; oxidizer. H302: Harmful if swallowed. H318: Causes serious eye damage.
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.	P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you are unwell. P303+P352: IF ON SKIN: Wash with plenty of water. 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.
Prevention	Storage / Disposal
P210: Keep away from heat, sparks or open flames, no smoking. P220: Store away from combustible materials. P221: Take any precautions to avoid mixing with combustibles. P280: Wear protective gloves, clothing, eye protection, face protection.	P420: Store away from incompatible materials. 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)
Sodium Carbonate Peroxyhydrate	15630-89-4	85.0%

Section 4: First-Aid Measures	
Eye Contact:	Hold eye(s) open and rinse cautiously with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye(s). Call a poison control center or doctor for treatment advice.
Skin Contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice if irritation persists.
Ingestion:	Call poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Inhalation:	Move person to fresh air. If person is not breathing, call 911. Call poison control center or doctor for treatment advice.
Notes to Physician:	Material is corrosive and probably mucosal damage may contraindicate the use of gastric lavage.

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Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	Water or water spray.
Unsuitable Extinguishing Media:	None.
Combustion Products:	Carbon monoxide, carbon dioxide, oxygen.
Unusual Fire and Explosion Hazards:	Oxidizing substance, exothermic decomposition releases oxygen, may support combustion.
Protective Equipment for Firefighters:	Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6: Accidental Release Measures

Personal Precautions:	Work to prevent dust cloud formation. No open flames in area. Wear protective clothing and glasses.
Emergency Procedures:	Keep away from incompatible products, sweep up to prevent slipping hazard.
Environmental Precautions:	Prevent entry to sewers and public waters. Avoid release to the environment.
Methods and Material for Containment and Clean-Up:	Place spilled material into a suitable container using protective clothing, avoid dust cloud formation. After removing material, clean affected area/surfaces with an excess of water.

Section 7: Handling and Storage

Handling:	Avoid creating dust. Keep away from open flames/heat. Keep container closed tightly when not in use. Wear safe clothing and eye protection.
Storage:	Keep container closed tightly in storage. Store in a dry location and out of direct sunlight. Store separately from incompatible materials.
Incompatible Materials:	Oxidizing agents (strong acids/bases), metals, organic materials, water/moisture.

Section 8: Exposure Controls / Personal Protection

Components with Workplace Control Parameters

Component	ACGIH	NIOSH	OSHA
Sodium Carbonate Peroxyhydrate	Not applicable.	Not applicable.	Not applicable.
Engineering Controls:	Avoid raising dust, Keep away from flames/heat. General room ventilation is required, maintain adequate ventilation. Emergency eye wash station should be in close proximity.		
General Hygienic Practices:	Do not eat, drink or smoke during use. Wash hands with soap and water after use.		
Respiratory Protection:	For most conditions, no respiratory protection should be needed. For excessive dust condition: dust mask with filter type P2.		
Eye / Face Protection:	Chemical goggles or face shield.		
Hands:	Chemical resistant gloves.		
Skin / Body:	Wear suitable protective clothing. Apron and boots made of butyl rubber for high risk exposure.		

Section 9: Physical and Chemical Properties

Appearance:	White, granular solid.	Odor:	None.	Odor Threshold:	Not available.
pH:	10.5 in 3% solution.	Specific Gravity:	0.9 - 1.2 g/cm ³	Viscosity:	Not available.
Melting Point:	Not available.	Freezing Point:	Not available.	Boiling Point:	Not available.
Flash Point:	Not available.	Flammability:	Not available.	Flammability Limits:	Not available.
Vapor Pressure:	Not available.	Vapor Density:	Not available.	Solubility:	140 g/L at 20°C
Evaporation Rate:	Not available.	Auto-Ignition Temperature:	Not available.	Decomposition Temperature:	Self-accelerating decomposition temperature > 55°C
Relative Density:	Not available.	Partition Coefficient n-octanol / water:	Not available.		

Section 10: Stability and Reactivity

Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Heat/heat sources and moisture.
Incompatible Materials:	Water, strong acids/bases, metals, organic materials, reducing agents.
Hazardous Decomposition Products:	Thermal decomposition generates carbon dioxide and oxygen which supports combustion.

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Section 11: Toxicological Information

Acute Toxicological Data

Oral LD50:	Rat, 1034 mg/kg	Dermal LD50:	Rabbit, >2000 mg/kg	Inhalation LC50:	Rat, 1 hour - >4580 mg/m ³
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Likely Routes of Exposure: Inhalation, eye contact, skin contact.

Symptoms and Effects

Condition	Acute Effects	Chronic (Delayed) Effects
Eye Contact:	Causes serious eye damage.	None.
Skin Contact:	Causes severe skin burns.	Persistent irritation.
Inhalation:	May cause respiratory tract irritation.	None.
Ingestion:	Harmful if swallowed.	None.

Section 12: Ecological Information

Ecotoxicity:	Fishes, <i>Pimephales promelas</i> , LC50, 71 mg/L; <i>Daphnia pulex</i> EC50, 4.9mg/L 48 hrs.
Persistence and Degradability:	Biodegrades rapidly into water and oxygen.
Bioaccumulation Potential:	Does not bioaccumulate.
Mobility in Air/Water/Soil:	Non-significant adsorption in soil.
Other Adverse Effects:	No data available.

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 and dispose of rinsate in accordance with local regulations.

Section 14: Transport Information

	UN Number	UN Proper Shipping Name	Hazard Class (Subsidiary)	Label (Subsidiary)	Packing Group	Marine Pollutant
US DOT	3378	Sodium Carbonate Peroxyhydrate	5.1	Oxidizer	II	NO
CAN TDG	3378	Sodium Carbonate Peroxyhydrate	5.1	Oxidizer	II	NO
Special Precautions:	Not applicable.					

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	Not applicable.	Hazard Category:	Not applicable.		Sec. 304 EHS RQ:	Not applicable.
US EPA EPCRA Sec. 313	Not applicable.		CAA Threshold Qty:	Not applicable.		
NFPA Rating	Health: 2	Flammability: 0	Reactivity: 1	Special:	OX (Oxidizer)	
HMIS Rating	Health: 2	Flammability: 0	Physical: 1	PPE:	Recommended.	
CAN WHMIS Classification	C – Oxidizing; D2B - 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.					
EPA	This product is a registered sanitizer / disinfectant with the United States Environmental Protection Agency and is subject to EPA labeling requirements under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). These requirements may differ from the classification criteria and hazard information required for a safety data sheet under the Global Harmonized Systems (GHS), and for workplace labels of non-pesticide chemicals. It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Always refer to product label for further precautionary information and use directions.					

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Section 16: Other Information

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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GreenClean® PRO is a registered trademark of BioSafe Systems, LLC.

For additional information, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com

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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