

 Form #:
 SDS-032

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GreenClean[®] PRO

	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		
Use Restrictions:	It is a violation of federal law to use this product in a manner inconsistent with its labeling.	Chemical Formula:	2Na ₂ CO ₃ + 3H ₂ O		
Manufacturer:	BioSafe Systems, LLC 22 Meadow Street East Hartford, CT 06108	EPA Registration #: 70299-15			
Telephone Number:	1-888-273-3088	Emergency Number: 1-800-424-9300 (CHEMTREC)			

Section 2: Hazard Identification			
GHS Classification Hazard Statements			
H272: May intensify fire; oxidize	r.		
H302: Harmful if swallowed.			
H318: Causes serious eye damag	je.		
Oral: Category 4 H318: Causes serious eye damage. Serious Eye Damage/Eye Irritation: Category 1A			
	Signal Word		
	Response		
P101: If medical advice is needed, have product container or label at hand. P301+P312+P330: IF SWALLOWED: Call a POISON CENTER/doctor if you full unwell. Rinse mouth.			
	Ha H272: May intensify fire; oxidize H302: Harmful if swallowed. H318: Causes serious eye damag		

nand.	unwell. Rinse mouth.
P102: Keep out of reach of children.	P303+P352: IF ON SKIN: Wash with plenty of water.
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.
	P310: Immediately call a POISON CENTER/doctor.
	P370+P378: In case of fire: Use water to extinguish.
Prevention	Storage / Disposal
P221: Take any precautions to avoid mixing with combustibles.	P420: Store away from incompatible materials.
P264: Wash skin thoroughly after handling.	
P270: Do not eat, drink or smoke when using this product.	P501: Dispose of contents/container in accordance with
P280: Wear protective gloves, clothing, eye protection, face	local/regional/national/international regulations.
protection.	

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	Hold eye(s) open and rinse cautiously with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then		
Contact:	act: continue rinsing eye(s). Call a poison control center or doctor for treatment advice.		
Skin	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor		
Contact:	act: 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	Material is corrosive and probable mucosal damage may contraindicate the use of gastric lavage.		
Physician:			



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Section 5: Fire-Fighting Measures			
Suitable Extinguishing Media:		Water or water spray.	
Unsuitable Extinguishing Media: None.		None.	
Combustion Products: Carbon monoxide, carbon dioxide, oxygen.			
Unusual Fire and Explosion Hazards: Oxidizing substance, exothermic decomposition releases oxygen, may support combustion.		Oxidizing substance, exothermic decomposition releases oxygen, may support combustion.	
Protective Full chemical protection suits and boots (rubber or PVC) and self-contained breathing apparatus. Cordon the area to keep out all			
Equipment for	quipment for unnecessary personnel. Keep upwind. Use large quantities of water spray to fight fire. Cool containers / tanks with water spray. If		
Firefighters:	Firefighters: safe to do, move product away from fire to secure area. Eliminate all possible sources of ignition and remove flammable material.		
Thenginers.	inenginers. Sale to do, move product away non-me to secure area. Eliminate an possible sources of ignition and remove nanimable material.		

Section 6: Accidental Release Measures

	Section 6. Accidental Release measures		
Personal Precautions:	Personal Precautions: Work to prevent dust cloud formation. No open flames in area. Wear protective clothing and glasses.		
Emergency Procedures:	es: Ensure clean-up is conducted by trained personnel. Personnel should wear appropriate protective equipment. Remove		
	all sources of ignition. If facing concentrations above exposure limits personnel shall wear certified respirators.		
Environmental Precautions:	Prevent undiluted spillage from entering sewers, basements or watercourses.		
Methods and Material for	Sweep up to prevent slipping hazards. Place spilled material into a suitable container using protective clothing, avoid		
Containment and Clean-Up:	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. Never return unused product to original storage container.		
Storage:	Keep container closed tightly in storage. Store in a dry location and out of direct sunlight. Store separately from incompatible materials.		
	Store at temperatures less than 40°C (104°F).		
Incompatib	Incompatible Materials: Oxidizing agents (strong acids/bases), metals, organic materials, water/moisture.		
Compatib	Compatible Materials: Stainless Steel, Polyethylene, Paper with PE coating		

Section 8: Exposure Controls / Personal Protection				
Components with Workplace Control Parameters				
Component	ACGIH	NIOSH	OSHA	
Sodium Carbonate Peroxyhydra	e NA	NA	NA	
Engineering Controls:	ntrols: 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.			
Personal Protective Equipment				
Respiratory Protection:	ection: For most conditions, no respiratory protection should be needed. For excessive dust condition: dust mask or NIOSH			
	approved particulate respirator.			
Eye / Face Protection:	Chemical goggles or face shield.			
Hand Protection:	Chemical resistant gloves.			
Skin / Body Protection:	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:	Odorless.		Odor Threshold:	NA
Physical State:	Powder.	pH:	10.4 – 10.6 in 3% solution.		Specific Gravity:	0.9 – 1.2 g/cm ³
Melting Point:	NA	Freezing Point:	NA		Boiling Point:	NA
Flash Point:	NA	Flammability:	NA		Flammability Limits:	NA
Vapor Pressure:	NA	Vapor Density:	NA		Solubility:	140 g/L at 20°C (68°F)
Evaporation	NA	Auto-Ignition	NA		Decomposition	SADT > 55°C (131°F)
Rate:	INA	Temperature:	NA		Temperature:	3AUT > 33 C (131 F)
Relative Density:	950-1200 kg/m ³	Partition Coefficient n-octanol / water: NA		NA	Viscosity:	NA

Section 10: Stability and Reactivity		
Reactivity: Decomposes when moist or when heated. Potential for exothermic hazard.		
Stability: Stable under recommended storage conditions.		
Conditions to Avoid: Heat/heat sources and moisture.		
Incompatible Materials: Water, strong acids/bases, salts of heavy metals, organic materials, reducing agents, flammables, combusti		
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:	kg	Inhalation LC50 Rat:	1 hr – >4580 mg/m ³				
	Symptoms and Effects								
Condition	Acute Effects				Chronic (Delayed) Effects				
Eye Contact:	Causes serious eye d	amage.		None.					
Skin Contact:	ct: May cause skin irritation.								
Inhalation:	May cause respirato	ry tract irritation.		None.					
Ingestion:	Harmful if swallowed	1.	None.						

Section 12: Ecological Information								
	Duration 96 hr LC50		Species	Value				
Ecotoxicity:			otoxicity: 96 hr LC50 Pimephales prom		Pimephales promelas (fathead minnow)	71 mg/L		
	96 hr EC50		Daphnia pulex (water flea)	4.9 mg/L				
Persistence and	Degradability:	Biodegra	iodegrades rapidly into water and oxygen.					
Bioaccumulative Potential: Does not bioaccumulate.								
Γ	Mobility in Soil: Non-significant adsorption in soil.							
Results	Results of PBT & vPvB: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).							
Other A	Other Adverse Effects: None known.							

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 containers. Triple rinse empty containers with clean water. Clean and empty				
containers should be taken to an approved waste handling site for recycling or disposal.					

	Section 14: Transport Information									
UN N	umber		UN Proper Shipping Name	Hazard Class (Subsidiary)	Packing Group	ΙΑΤΑ	Marine Pollutant			
DOT	3378		Sodium Carbonate Peroxyhydrate	5.1	Ш	Permitted for				
TDG	3378		Sodium Carbonate Peroxyhydrate	5.1	Ш	shipment by				
IMDG	3378		Sodium Carbonate Peroxyhydrate	5.1		air. (25kg)	No			
	Special I	Precautions:	Vented containers							
	Shipping Placards:		OXIDIZER 5.1							

Section 15: Regulatory Information												
TSCA Inv	entory List US EPA CERCLA Hazardous Substances							Clean Water Act				
Sodium Carbonate	Peroxyhydra	te Yes		Sodium Carbona	ate Pero	xyhydrate N	A		NA			
SARA Title III												
	Sec. 302 TPQ.		c 304 Sec 311 / Sec 312 Hazard Category RQ.							Sec 313	Clean Air Act Threshold Qty.	
Sodium Carbonate Peroxyhydrate	NA	NA	1	Physical: Oxidizer NA Health: Acute Toxicity; Serious Eye Damage or Eye Irritation							NA	
NFPA 704 Rating Health:				Flammability:	0	Reactivity:	1	Special	: OX	(Oxidizer)		
HMIS Rating Health:				Flammability:	0	Physical:	1	PPE	E: Recommended.			
Uniform Fire Code (NFPA 400) Oxidizer: Class 2, Solid.												
California Prop 6	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.											
FIFRA This product is a registered pesticide 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.												
NS	F Maximu	Maximum use for potable water is 33 mg/L.										



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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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