

	Section 1: Identification		
Product Name: GreenClean Liquid 2.0 ®		Product Type/Description: Algaecide / Bactericide / Fungicide	
	se/ Use Restrictions: Pesticide; It is a violation of se this product in a manner inconsistent with its	Other Means of Identification: Peracetic Acid, Peroxyacetic Acid, PAA EPA Registration Number: 70299-12	
Manufacturer:	BioSafe Systems LLC 22 Meadow Street, East Hartford, CT 06108	Emergency Number: 800-424-9300 (CHEMTREC)	
Telephone Number: (888-273-3088)			

Section 2: Hazard Identification			
GHS Classification (As Concentrate) Oxidizing Liquid: Category 2 Organic Peroxide: Type F Corrosive to Metals: Category 1 Acute Toxicity (oral, dermal and inhalation): Category 4 Skin Corrosion: Category 1 Serious Eye Damage: Category 1	H242: Heatin H290: May be H302: Harmfi H332: Harmfi H313: Causes eye damage) itensify fire; oxidizer g may cause fire e corrosive to metals ul if swallowed	Pictograms:
	Precautiona	ry Statements:	
General: P101: If medical advice is needed, have product container of P102: Keep out of reach of children P103: Read label before use. Prevention: P210: Keep away from heat, sparks or open flames, no smo P220: Store away from combustible materials P221: Take any precautions to avoid mixing with combustib P234: Keep only in original container P260: Do not breathe fumes, mist or vapors P262: Do not get in eyes, on skin or on clothing P264: Wash thoroughly after handling P270: Do not eat, drink, or smoke when using this product. P280: Wear protective gloves, clothing, eye protection, face P271: Use only outdoors or in a well-ventilated area	king les	 P303+P361+P353: IF ON S contaminated clothing. Ri P304+P340: IF INHALED: If for breathing P305+P351+P338: IF IN E' minutes. Remove contact Rinsing. P310: Immediately call a I P321: For specific treatmer P370+P378: In case of fire P390: Absorb spillage to p Storage: P405: Store locked up P410: Protect from sunlig P411: Store at temperatu P406: Store in corrosive r P420: Store away from In Disposal 	ents see FIRST AID section on SDS or label e: Use water or other suitable extinguishing media prevent material damage tht res not exceeding 55°C (131°F) esistant container, never use metal containers icompatible materials /container in accordance with

NFPA Rating: Health – 2; Flammability – 0; Reactivity – 3; Special – OXY **HMIS Rating:** Health – 2; Flammability – 0: Reactivity – 2; PPE: Required

Section 3: Composition/Information on Ingredients		
Components:	<u>CAS-No:</u>	<u>% Concentration by Weight:</u>
Hydrogen Dioxide	7722-84-1	27.1%
Peroxyacetic Acid	79-21-0	2%
Acetic Acid	64-19-7	>5%



	Section 4: First-aid Measures
Eye Contact:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then
	continue rinsing eye. 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.
Ingestion	Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce
_	vomiting unless told to do so by the 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 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if
	possible. Call poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control
	center or doctor, or going for treatment. You may also contact 1.800.222.1222 for emergency treatment information.
Note to Physician:	Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5: Fire-fighting Measures		
Suitable Extinguishing Media:	Product is not flammable and can be quickly diluted with clean water. Oxidizing Agent may cause spontaneous ignition with oxidizing agents	
Unsuitable Extinguishing Media:	None Known	
Combustion Products:	Carbon Oxides	
Unusual Fire and Explosion Hazards:	Product (concentrate) can decompose and will release oxygen thereby adding to the fire hazard.	
Protective Equipment for	Use PPE equipment	
Firefighters:		

Section 6: Accidental Release Measures		
Personal Precautions:	Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid	
	inhalation, ingestion and contact with skin and eyes	
Emergency Procedures	Ensure clean-up is conducted by trained personnel. Personnel should wear protective equipment outlined in Sections 7 &	
	8. If facing concentrations above exposure limits personnel shall wear certified respirators	
Environmental Precautions	Prevent spill from entering waterways	
Methods and Material forCleanup: Rinse small amounts to drain when possible. Dike or dam large spills, pump to containers or soak in inert		
Containment and Cleaning up	absorbent. Flush residue to sanitary sewer, rinse area thoroughly with clean water. Avoid materials that are incompatible	
	with concentrate. Waste Disposal: Consult state and local authorities for restrictions on disposal of chemical wastes.	
	Unused product (concentrate) is classified as a (D002) by RCRA criteria.	

	Section 7: Handling and Storage
Handling:	Wear protective gloves/eye protection/face protection Do not eat, drink, or smoke when using this product. Wash thoroughly after
_	handling Avoid breathing fumes/mist/vapors. Use only outdoors or in a well-ventilated area
Storage:	Keep away from heat. Keep only in original container. Protect from sunlight. Store at temperatures not exceeding 55°C (131°F). Never
	return product back to the original container. Store in cool, ventilated area. Never use metal containers or spigots. Use vented container
Incompatible Materials:	Store away from combustible materials. Keep concentrate away from reactive substances

		Section 8: Ex	xposure Controls/Personal Protection	
Components wit	th workplace control	parameters		
Component		ACGIH	NIOSH	OSHA
Acetic Acid		TWA 10 ppm	TWA: 25 mg/m ³ - 8 hours. TWA: 10 ppm- 8 hours.	TWA: 25 mg/m ³ - 8 hours. TWA: 10 ppm- 8 hours.
Hydrogen Peroxide		TWA 1 ppm	TWA: 1.4 mg/m ³ - 8 hours. TWA: 1 ppm- 8 hours.	TWA: 1.4 mg/m ³ - 8 hours. TWA: 1 ppm- 8 hours.
Engineer	ing Controls	Effective exhaust ventilation system		
	Respiratory	NIOSH approved full-face respirator for excessive conditions		
Personal	Eye/Face Protection			
Protection	Hands			
Equipment	Skin/Body	coveralls when handling concentrate		
	General Hygienic Practices	Do not eat, drink, or smoke when using this product. Wash thoroughly after handling Avoid breathing fumes/mist/vapors. Remove and wash contaminated clothing before reuse		



Section 9: Physical and Chemical Properties			
Appearance: Clear, colorless liquid	Odor: Pungent	pH: 0.96	
Melting Point: No data available	Freezing Point: -30°C (-22°F)	Boiling Point: Not applicable, product decomposes	
Flash Point: No data available	Flammability: No data available	Flammable Limits: No data available	
Vapor Pressure: No data available	Specific Gravity: 1.10	Solubility(ies): soluble	
Partition Coefficient n- octanol/water: Auto-ignition Temperature: Decomposition Temperature:			
No data available	No data available	self-accelerating decomposition temperature $> 55^{\circ}C$	

Section 10: Stability and Reactivity		
Stability:	Stable under normal conditions, with slow oxygen release	
Conditions to Avoid	Heat / Direct Sunlight	
Incompatible materials	Acids / Bases / Reducing Agents Organic Materials / Metals / Salts of Metals	
Hazardous Decomposition	N/A	
Products		

Section 11: Toxicological Information			
Acute Toxicological Data:	Oral: LD50 rat 3,622 mg/kg. Test substance: 5.6%	Dermal: LD50 rabbit, 1040 mg/kg. Test substance:	
	PAA, 26.9% H2O2, 7.6% HOAc solution	4.89% PAA, 19.72% H2O2, 10% HOAc solution	
Inhalation: LD50 rat > 5.35 mg/L for four hour	Primary Skin irritation: rabbit, severe irritant.	Primary Eye irritation: rabbit, severely irritating	
exposure. Test substance: 4.5% PAA, 27% H2O2,16.7%	Test substance: 2% PAA solution	or corrosive. Test substance: 2% PAA solution	
HOAc solution			
Likely Routes of Exposure: Inhalation, eye contact,	, skin contact		
Symptoms and effects:	Acute Effects		
Eye Contact	Causes serious eye damage		
Skin Contact	t Causes severe skin burns		
Inhalation May cause respiratory track irritation			
Ingestion	m Harmful if swallowed		
Chronic exposure: Dermal and inhalation – irritating effects			

Section 12: Ecological Information		
Ecotoxicity	Toxic to simple cell and aquatic organisms; Fish, Rainbow trout LC50, 48 hours > 40 mg/L Crustaceans, EC 50,48 hours 126.8 mg/l 1	
-	mg/ L Bacteria, Pseudomonas aeruginosa, EC 100, 5 minutes, 5mg/L	
Persistence and degradability	Weak persistence of degradation products	
Bioaccumulation potential	No bioaccumulation	
Mobility is Soil	Non-significant adsorption Soil degradation = 99% in 20 minutes	
Other adverse effects	N/A	

Section 13: Disposal Considerations					
Waste From Residues and Unused Product	t Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility				
	Open dumping is prohibited. If wastes cannot be disposed of according to label directions, contact your State				
	Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regio				
	Office for guidance.				
Contaminated Container Disposal	Triple rinse (or equivalent). Then offer for recycling or dispose in a sanitary landfill, or incineration, if allowed by				
-	state and local authorities by burning. Stay out of smoke.				

Section 14: Transport Information								
	UN Number	UN Proper Shipping Name	Hazard Class (Subsidiary)	Label (Subsidiary)	Packing Group	Marine Pollutant		
US DOT	3149	Hydrogen peroxide and peroxyacetic acid mixture, stabilized with acids and water and not more than 5% peroxyacetic acid.	5.1(8)	Oxidizer (Corrosive)	11	No		
Canada (TDG)	3149	Hydrogen peroxide and peroxyacetic acid mixture, stabilized with acids and water and not more than 5% peroxyacetic acid.	5.1(8)	Oxidizer (Corrosive)	11	NO		
Special Pre	Special Precautions: Shipping Container: UN Certified vented polyethylene							



Section 15: Regulatory Information						
TSCA Inventory List: Yes		US EPA CERCLA RQ: Acetic Acid 5000 lbs				
SARA Title III Section Extremely Hazardous		Section 304 EHS RQ: Peroxyacetic Acid 500	Section 302 TPQ: Peroxyacetic Acid 500			
Substance: Peroxyacetic acid		lbs	lbs			
SARA Title III Sec. 311/312: peroxyacetic acid		Hazard category: Acute Health Hazard Reactivity Hazard, Fire Hazard				
US. EPA EPCRA Section 313 listed: Peroxyetic acid		Threshold quantity (processed or manufactured): 10,000 lbs	Threshold quantity (otherwise used): 25,0000 lbs			
Canadian WHIMIS Classification	C – Oxidizing E – Corrosive F – Dangerously Reactive					
California Prop 65	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.					
EPA	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.					

Section 16: Other Information

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