


Section 1: Identification	
Product Name: GreenClean®FX Liquid Algaecide	Product Type/Description: Algaecide
Recommended Use/ Use Restrictions: Algaecide; It is a violation of federal law to use this product in a manner inconsistent with its labeling	Other Means of Identification: hydrogen peroxide/ peroxyacetic acid solution
	EPA Registration Number: 70299-16
Manufacturer: BioSafe Systems LLC 22 Meadow Street, East Hartford, CT 06108 Telephone Number: (888-273-3088)	Emergency Number: 800-424-9300 (CHEMTREC)

Section 2: Hazard Identification		
GHS Classification (As Concentrate) Serious Eye Damage: Category 1 Skin Corrosion/Irritation: Category 3	Hazard Statements: (As Concentrate) H318: Causes serious eye damage H316: Causes mild skin irritation	Pictograms:  Signal Word: DANGER
Precautionary Statements:		
General: 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. Prevention: P264: Wash thoroughly after handling P280: Wear protective gloves, clothing, eye protection, face protection	Response: 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. P332+P313: If skin irritation occurs: Get medical advice/attention P321: For specific treatments see FIRST AID section on SDS or label Disposal P501: Dispose of contents/container in accordance with local/regional/national/international regulations	

Section 3: Composition/Information on Ingredients		
Components:	CAS-No:	% Concentration by Weight:
Hydrogen Dioxide	7722-84-1	5.34%
Peroxyacetic Acid	79-21-0	1.36%
Acetic Acid	64-19-7	14.5%

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. Dry chemical, water spray, foam, carbon dioxide.
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 Firefighters:	Use PPE equipment

Section 6: Accidental Release Measures

Personal Precautions:	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes
Emergency Procedures	Keep away materials that are incompatible with this product (section 10) All receiving equipment should be clean, dry, vented, labeled and made of materials compatible with the product.
Environmental Precautions	Prevent spill from entering waterways
Methods and Material for Containment and Cleaning up	Do not return spilled or contaminated material to inventory. Rinse small amounts to drain, when possible. Clean the area with water.

Section 7: Handling and Storage

Handling:	Wear protective gloves/eye protection. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling . 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: Exposure Controls/Personal Protection

Components with 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.
Engineering Controls		Adequate ventilation	
Personal Protection Equipment	Respiratory	Avoid breathing mist or vapors of concentrate	
	Eye/Face Protection	chemical proof goggles	
	Hands	Hand gloves for handling concentrate = butyl rubber	
	Skin/Body	Protective clothing/shoes	
	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: 1.13
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: 1.04	Solubility(ies): soluble
Partition Coefficient n- octanol/water: No data available	Auto-ignition Temperature: No data available	Decomposition Temperature: self-accelerating decomposition temperature > 55°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 Products	N/A

Section 11: Toxicological Information		
Acute Toxicological Data:	Oral: LD50 rat estimated > 2,000 mg/kg	Dermal: LD50 rat estimated > 5,000 mg/kg
Inhalation: N/D	Primary Skin irritation: rabbit, slight irritant.	Primary Eye irritation: rabbit, irritating
Likely Routes of Exposure: eye contact, skin contact, inhalation		
Symptoms and effects:	Acute Effects	
Eye Contact	Causes eye damage	
Skin Contact	Can cause skin irritation	
Inhalation	May cause respiratory track irritation	
Ingestion	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 in 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	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 Regional 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	Not Regulated	Not Regulated				No
Canada (TDG)	Not Regulated	Not Regulated				No
Special Precautions: Shipping Container: Ship in original vented container						

Section 15: Regulatory Information		
TSCA Inventory List: Yes	US EPA CERCLA RQ: Acetic Acid 5000 lbs	
SARA Title III Section Extremely Hazardous Substance: Peroxyacetic acid	Section 304 EHS RQ: Peroxyacetic Acid 500 lbs	Section 302 TPQ: Peroxyacetic Acid 500 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	N/A	
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

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 in connection with the information or its use. The information is for use by technically skilled persons at their own discretions 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.



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

©2014 Copyright BioSafe Systems, LLC. ®GreenCleanFX is a registered trademark of BioSafe Systems, LLC. Always read and follow label directions.

Issuing Date: 05/15

Revision Number: r1