

Revision Date: 3/2014 Supersedes: 12/2014

Section 1: Identification			
Product Name: TerraClean 5.0		Product Type/Description: Bactericide/Fungicide	
Recommended Use/ Use Restrictions: Pesticide/ For Commercial Use/ It is a violation of federal law to use this product in a manner inconsistent		Other Means of Identification Peracetic Acid, Peroxyacetic Acid, PAA  EPA Registration Number: 70299-13	
with its labeling		8	
Manufacturer:	BioSafe Systems LLC	Emergency Number: 800-424-9300 (CHEMTREC)	
	22 Meadow Street, East Hartford, CT 06108		
<b>Telephone Number:</b> (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

### Hazard Statements: (As Concentrate)

**H272:** May intensify fire; oxidizer **H242:** Heating may cause fire **H290:** May be corrosive to metals

**H302:** Harmful if swallowed **H332:** Harmful if inhaled

**H313:** Causes severe skin burns and

eye damage

**H335:** May cause respiratory

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:**

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

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 protection

P271: Use only outdoors or in a well-ventilated area

#### Response:

**P301+P330+P331:** If SWALLOWED: Rinse mouth. Do not induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable

for breathing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue

insing.

**P310:** Immediately call a POISON CENTER/doctor.

**P321:** For specific treatments see FIRST AID section on SDS or label

P370+P378: In case of fire: Use water or other suitable extinguishing

nedia

P390: Absorb spillage to prevent material damage

Storage:

P405: Store locked up

P410: Protect from sunlight

**P411:** Store at temperatures not exceeding  $55^{\circ}$ C (131°F)

**P406:** Store in corrosive resistant container, never use metal containers

**P420:** Store away from Incompatible materials

**Disposal** 

**P501\_**Dispose of contents/container in accordance with local/regional/national/international regulations

#### Other Information:

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 Ingred	dients
Components:	Identifiers:	% Concentration by Weight:
Hydrogen Dioxide	7722-84-1	27.0%
Peroxyacetic Acid	79-21-0	5.0%
Acetic Acid	64-19-7	8%



Revision Date: 3/2014 Supersedes: 12/2014

	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 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 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call poison control center or doctor for treatment advice.
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 igniti-		
	with oxidizing agents	
<b>Unsuitable Extinguishing Media:</b>	None Known	
<b>Combustion Products:</b>	Carbon Oxides	
<b>Unusual Fire and Explosion Hazards:</b>	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	
<b>Emergency Procedures</b>	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 for Containment and Cleaning up	Cleanup: Rinse small amounts to drain when possible. Dike or dam large spills, pump to containers or soak in inert 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
<b>Incompatible Materials:</b>	Store away from combustible materials. Keep concentrate away from reactive substances

Section 8: Exposure Controls/Personal Protection					
Components wi	th workplace control	parameters			
Component		ACGIH	NIOSH	OSHA	
Acetic Acid		TWA 10 ppm	TWA: 25 mg/m³- 8 hours. TWA: 10 ppm- 8 hours.	TWA: 25 mg/m³- 8 hours. TWA: 10 ppm- 8 hours.	
Hydrogen Peroxide		TWA 1 ppm	TWA: 1.4 mg/m³- 8 hours. TWA: 1 ppm- 8 hours.	TWA: 1.4 mg/m³- 8 hours. TWA: 1 ppm- 8 hours.	
Engineering Controls Effective exhau		Effective exhaust ventila	ve exhaust ventilation system		
	Respiratory	NIOSH approved full-face respirator for excessive conditions			
	Eye/Face	- chemical proof goggles/face shield for splash risk			
Personal	Protection				
Protection	Hands	Hand gloves for handling concentrate = butyl rubber			
Equipment	Skin/Body	coveralls when handling concentrate			
	General Hygienic	Do not eat, drink, or smoke when using this product. Wash thoroughly after handling Avoid breathing fumes/mist/vapors.			
	Practices	Remove and wash conta	minated clothing before reuse		



Revision Date: 3/2014 Supersedes: 12/2014

Section 9: Physical and Chemical Properties		
Appearance: Clear, colorless liquid	Odor: Pungent	<b>pH:</b> 1.56
Melting Point: no data available	Freezing Point: -30°C (-22°F)	<b>Boiling Point:</b> N/A; product decomposes
Flash Point: no data available	Flammability: non flammable	Flammable Limits: no data available
Vapor Pressure: no data available	Specific Gravity: 1.11 g/cm³ (9.29 lbs/gal) at 24°C	Solubility (ies): Complete
Partition Coefficient n- octanol/water:	Auto-ignition Temperature:	Decomposition Temperature:
no data available	no data available	self-accelerating decomposition temperature > 55°

Section 10: Stability and Reactivity		
Stability:	Stable under normal conditions, with slow oxygen release	
Conditions to Avoid	Heat / Direct Sunlight /water/moisture, contact with combustible materials	
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 330 mg/kg (7% solution)	Dermal:LD50 rabbit, 1410 mg/kg (10% solution)
Inhalation: LD50 4 h., rat 4080 mg/kg (5% solution)	<b>Skin irritation:</b> >0.12% solution, irritating effect	Eye irritation: rabbit, severely irritating
Likely Routes of Exposure: Inhalation, eye contact,	skin contact	
Symptoms and effects:	Acute Effects	
Eye Contact	Causes serious eye damage	
Skin Contact	Causes severe skin burns	
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 celled aquatic organisms. Danger to the environment limited; due to product properties		
Persistence and degradability	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   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 Do not reuse or refill this container. Triple Rinse empty containers with clean water. Clean and empty containers with clean water.		
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			
US DOT	3109	Organic Peroxide type F, liquid Peroxyacetic acid or peracetic acid (with not more than 26% hydrogen peroxide	5.2(8)	Organic Peroxide (Corrosive)	II	NO			
CA TDG	3109	Organic Peroxide type F, liquid Peroxyacetic acid or peracetic acid (with not more than 26% hydrogen peroxide	5.2(8)	Organic Peroxide (Corrosive)	II	NO			



Revision Date: 3/2014 Supersedes: 12/2014

Section 15: Regulatory Information							
TSCA Inventory List:	Yes	US EPA CERCLA Hazardous Substances: Acetic Acid 5000 lbs					
SARA Title III Section Substance: Peroxyacetic	302/303 Extremely Hazardous acid	EHS RQ: Peroxyacetic Acid 500 lbs	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 Secti	on 313 listed: Peroxyacetic 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**

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 it's 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.

### **Bi** Safe Systems

For additional information on TerraClean 5.0, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com.

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