

OxiDate® Tree and Vine

Form #: SDS-014

Revision Date: 01/03/2019

Revision #: 02

Supersedes Date: 05/10/2018

Section 1: Identification						
Product Name:	OxiDate® Tree and Vine	Product Type / Description: Ba		Bactericide / Fungicide / Algaecide		
Recommended Use:	Bactericide / Fungicide / Algaecide for commercial use	Other Means of Identification:		Peracetic Acid, Peroxyacetic Acid, PAA		
Use Restrictions:	It is a violation of federal law to use this product in a manner inconsistent with its labeling.					iu, PAA
Manufacturer:	BioSafe Systems, LLC 22 Meadow Street East Hartford, CT 06108	EPA Registration #:	70299-28		Canada PMRA Registration #:	N/A
Telephone Number:	1-888-273-3088	Emergency Number: 1-800-424-9300 (CHEMTREC)				

Section 2	2: Hazard Identification			
GHS Classification	Hazard Statements			
Oxidizing Liquid: Category 2	H242: Heating may cause fire.			
Organic Peroxide: Type F	H272: May intensify fire; oxidizer.			
Corrosive to Metals: Category 1	H290: May be corrosive to metals.			
Acute Toxicity (Oral, Dermal, and Inhalation): Category 4	H302: Harmful if swallowed.			
Skin Corrosion: Category 1	H312: Harmful in contact with skin.			
Serious Eye Damage: Category 1	H314: Causes severe skin burns and eye damage.			
Specific Target Organ Toxicity (Single Exposure): Category 3	H332: Harmful if inhaled.	H332: Harmful if inhaled.		
	H335: May cause respiratory irritation.			
Pictograms	Signal Word			
	DANGER			
Precal General	autionary Statements			
P101: If medical advice is needed, have product container or label at	Response P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vo	miting		
hand.		P303+P361+P353: IF ON SKIN (or hair): Take off immediately all		
P102: Keep out of reach of children.	contaminated clothing. Rinse skin with water/shower.			
P103: Read label before use.	P304+P340: IF INHALED: Move person to fresh air and keep comfo	rtable for		
	breathing.			
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for seve			
	minutes. Remove contact lenses, if present and easy to do. Contin			
	P310: Immediately call a POISON CENTER/doctor.			
	P321: For specific treatments see FIRST AID section on SDS or labe			
	P370+P378: In case of fire: Use water or other suitable extinguishi	P370+P378: In case of fire: Use water or other suitable extinguishing media.		
	P390: Absorb spillage to prevent material damage.			
Prevention	Storage / Disposal			
P210: Keep away from heat, sparks or open flames, no smoking.	P405: Store locked up.			
and,				
P220: Store away from combustible materials.	P406: Store in corrosive resistant container, never use metal container	iners.		
P220: Store away from combustible materials. P221: Take any precautions to avoid mixing with combustibles.	P410: Protect from sunlight.	iners.		
P220: Store away from combustible materials. P221: Take any precautions to avoid mixing with combustibles. P234: Keep only in original container.	P410: Protect from sunlight. P411: Store at temperatures not exceeding 55°C (131°F).	iners.		
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.	P410: Protect from sunlight.	iners.		
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.	P410: Protect from sunlight. P411: Store at temperatures not exceeding 55°C (131°F). P420: Store away from incompatible materials.	niners.		
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.	P410: Protect from sunlight. P411: Store at temperatures not exceeding 55°C (131°F). P420: Store away from incompatible materials. P501: Dispose of contents/container in accordance with	ainers.		
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.	P410: Protect from sunlight. P411: Store at temperatures not exceeding 55°C (131°F). P420: Store away from incompatible materials.	ainers.		
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. P271: Use only outdoors or in a well-ventilated area.	P410: Protect from sunlight. P411: Store at temperatures not exceeding 55°C (131°F). P420: Store away from incompatible materials. P501: Dispose of contents/container in accordance with local/regional/national/international regulations.	ainers.		
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Section 3: Composition / Information on Ingredients				
Components CAS-No % Composition (w/w)				
Hydrogen Peroxide	7722-84-1	27.0%		
Peroxyacetic Acid	79-21-0	5.0%		
Acetic Acid	64-19-7	8.0%		

	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.				
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.				

Section 5: Fire-Fighting Measures				
Suitable Extinguishing Media:	Water spray.			
Unsuitable Extinguishing Media:	Do not use a heavy water stream, use of heavy stream of water may spread fire.			
Combustion Products: Corrosive vapors, acetic acid, carbon oxides.				
Unusual Fire and Explosion Hazards: Product is not flammable but during a fire, product can decompose and generate oxygen which can initia				
	or promote combustion. Strong oxidizer.			
Protective Equipment for Firefighters:	Do not enter fire area without proper protective equipment, including respiratory protection.			

Section 6: Accidental Release Measures				
Personal Precautions:	Personal Precautions: Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avo			
	inhalation, ingestion and contact with skin and eyes.			
Emergency Procedures:	ures: 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 entry to sewers and public waters. Avoid release to the environment.			
Methods and Material for	Small spills may be flushed to an approved sewer line with copious amounts of water. For larger spills, dike well			
Containment and Clean-Up: ahead of spill with non-reactive material such as sand. Flush material with water and collect for disposal into plas				
containers. Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. De				
not take up in combustible material such as a saw dust or cellulose based material. Contact competent authoriti				
	after a spill.			

Section 7: Handling and Storage				
Handling:				
	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.			

	•	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: 25 mg/m ³ - 8 hours.			
	STEL 15 ppm	TWA: 10 ppm - 8 hours.	TWA: 10 ppm - 8 hours.			
Hydrogen Peroxide	TWA 1 ppm	TWA: 1.4 mg/m ³ - 8 hours.	TWA: 1.4 mg/m ³ - 8 hours.			
		TWA: 1 ppm - 8 hours.	TWA: 1 ppm - 8 hours.			
Peracetic Acid	STEL 0.4 ppm					
Engineering Controls:	Ensure adequate ventilation. Emer potential exposure.	gency eye wash stations should be a	available in the immediate vicinity of any			
General Hygienic Practices:	Do not eat, drink or smoke during use.					
Personal Protective Equipment:	Protective clothing, protective goggles, gloves, face shield.					
Respiratory Protection:	Use NIOSH-approved air-purifying	Use NIOSH-approved air-purifying or supplied air respirator where airborne concentrations of vapor or mist are				
	expected to exceed exposure limits					



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Eye / Face Protection: Chemical goggles or face shield.	
Hands:	Chemical resistant gloves.
Skin / Body:	Wear suitable protective clothing.

Section 9: Physical and Chemical Properties						
Appearance:	Clear, colorless liquid.	Odor:	Pungent, vinegar-like.		Odor Threshold:	Not available.
pH:	<1.5	Specific Gravity:	1.11 g/cm ³		Viscosity:	Not available.
Melting Point:	Not available.	Freezing Point:	-30°C (-22°F)		Boiling Point:	Not available.
Flash Point:	Not available.	Flammability:	Not available.		Flammability Limits:	Not available.
Vapor Pressure:	22 mm Hg (25°C)	Vapor Density:	Not available.		Solubility:	Complete.
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: Store below 86°F and not in direct sunlight. Oxidizer – may intensify fire.						
Conditions to Avoid: Open flames, elevated temperatures, heat sources, direct sunlight. Combustible materials.						
Incompatible Materials: Acids / Bases / Reducing Agents / Organic Materials / Metals / Salts of Metals.						
Hazardous Decomposition Products: Thermal decomposition generates corrosive vapors, acetic acid and oxygen which supports combustio						

Section 11: Toxicological Information									
Acute Toxicological Data									
Oral LD50:	Oral LD50: 330 mg/kg (rat) at 7% solution Dermal LD50: 1410 mg/k			1410 mg/kg (ra	abbit) at 10% solution	Inhalation	4 hours – 4080 mg/kg (rat) at		
						LC50:	5% solution		
Likely Routes	Likely Routes of Exposure: Inhalation, eye contact, skin contact.								
Symptoms and Effects									
Condition	Condition Acute Effects					Chronic (Delayed) Effects			
Eye Cont	ye Contact: Causes serious eye damage.				None.				
Skin Contact: Causes severe skin burns.				None.					
Inhalat	Inhalation: May cause respiratory tract irritation.			None.					
Ingest	Ingestion: Harmful if swallowed.				None.	•			

Section 12: Ecological Information						
Ecotoxicity:	Toxic to simple celled aquatic organisms.					
Persistence and Degradability:	Weak persistence of degradation products.					
Bioaccumulation Potential:	Not available.					
Mobility in Soil:	Non-significant adsorption soil degradation = 99% in 20 minutes.					
Other Adverse Effects: Avoid release of concentrated material to the environment.						

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. Clean and empty					
	containers are to be recycled or placed in the trash.					

Section 14: Transport Information									
	UN	UN Proper Shipping Name	Hazard Class	Label (Subsidiary)	Packing	Marine			
	Number		(Subsidiary)		Group	Pollutant			
US DOT	3109	Organic peroxide type F, liquid (Peroxyacetic Acid <43%)	5.2 (8)	Organic Peroxide (Corrosive)	N/A	NO			
TDG	3109	Organic peroxide type F, liquid (Peroxyacetic Acid <43%)	5.2 (8)	Organic Peroxide (Corrosive)	N/A	NO			
Special Precautions: Shipping Container: UN Certified vented polyethylene									



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Section 15: Regulatory Information										
	TSCA Inventory List: Yes US EPA CERCLA Hazardous				dous Substances	: P	Acetic Acid 5000 lbs.			
SARA Title III Sec. 302/303 Peracetic Acid; Hydrogen Peroxide						Sec. 302 TPQ:		Peracetic Acid 500 lbs.		
										Hydrogen Peroxide 1000 lbs.
SARA Title III Sec. 311/312		Peracetic A	Acid;	Hazard	Acute Health,			Sec. 304 EHS		Peracetic Acid 500 lbs.
		Hydrogen	Peroxide	Category:	Reactiv	ity, Fire		RQ:		Hydrogen Peroxide 1000 lbs
U	S EPA EPCRA Sec. 313	Peracetic Acid			CAA Threshold Qty		ty:	: 10,000 lbs.		
NFPA Rating		Health:	3	Flammability:	1	Reactivity:	1		Special:	OX (Oxidizer)
	HMIS Rating	Health:	3	Flammability:	1	Physical:	1	1 PPE:		Recommended.
CAN WHMIS Classification C – Oxidizing; E – Corrosive; F – Dangerously Reactive										
	California Prop 65 This product does not contain any substances known to the state of California to cause cancer, developmental and/or						cause cancer, developmental and/or			
reproductive harm.										
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									

Section 16: Other Information

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

manner inconsistent with its labeling. Always refer to product label for further precautionary information and use directions.

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 relating to the information or its use. The information is for use by technically skilled persons at their own discretion 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. Always read and follow label directions.

Bi Safe Systems

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

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Key to Abbreviations

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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