

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: Bactericide / Fungicide / Algaecide		ide		
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: 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.		
	H335: May cause respiratory irritation.		

Pictograms	Signal Word
	DANGER

Precautionary Statements			
General	Response		
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.	ResponseP301+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: Move 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 rinsing.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 media.P390: Absorb spillage to prevent material damage.		
Prevention	Storage / Disposal		
 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. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves, clothing, eye protection, face protection. 	 P405: Store locked up. P406: Store in corrosive resistant container, never use metal containers. 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. 		
Other Hazards: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes. Contains an oxidizing material which may accelerate fire.			



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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 initiate	
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:	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 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 plastic containers. Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Do not take up in combustible material such as a saw dust or cellulose based material. Contact competent authorities after a spill.		

Section 7: Handling and Storage		
Handling:	Wear protective gloves/eye protection/face protection/body, skin 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: Exposure Controls / Personal Protection			
	Components with V	Vorkplace 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. Emergency eye wash stations should be available in the immediate vicinity of any potential exposure.		
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 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.	Not available.		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 combustion.					

	Section 11: Toxicological Information								
	Acute Toxicological Data								
Oral LD50:	330 mg/kg (ra	at) at 7% solution	Dermal LD50:	1410 mg/kg (ra	abbit) at 10% solution	Inhalation	4 hours – 4080 mg/kg (rat) at		
								LC50:	5% solution
Likely Routes	s of Exposure:	Inhalation, eye co	ontact, skin conta	ct.					
	Symptoms and Effects								
Condition	1	Acut	te Effects			Chronic (Delay	ved) Effects		
Eye Cont	tact: Causes	act: 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	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 Substances:			: 4	Acetic Acid 5000 lbs.				
SARA	A Title III Sec. 302/303	Peracetic /	Acid; Hyd	rogen Peroxide				Sec. 302 TPQ: P		Peracetic Acid 500 lbs.
										Hydrogen Peroxide 1000 lbs.
SAR/	A Title III Sec. 311/312	Peracetic /	Acid;	Hazard	Acute H	lealth,		Sec	. 304 EHS	Peracetic Acid 500 lbs.
		Hydrogen	Peroxide	Category:	Reactiv	ivity, Fire RQ:		RQ:	Hydrogen Peroxide 1000 lbs	
US EPA EPCRA Sec. 313 Peracetic Acid CAA Threshold Qty		ty:	10,000 lbs.							
	NFPA Rating Health: 3 Flammability: 1 Reactivity:		Reactivity:	1		Special:	OX (Oxidizer)			
	HMIS Rating	Health:	3	Flammability:	1	Physical:	1	1 PPE:		Recommended.
CAN	WHMIS Classification	C – Oxidizi	ing; E – Co	orrosive; F – Dan	gerously	Reactive				
	California Prop 65	This produ	ict does n	ot contain any su	bstances	known to the st	ate (of Ca	alifornia to	cause cancer, developmental and/or
	reproductive harm.									
EPA	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

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations 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 <u>www.biosafesystems.com</u> © 2018 BioSafe Systems, LLC. Revision Date: 01/03/2019 Current Revision Number: 02

Key to Abbreviations					
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				

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