

OxiDate® 2.0

SDS-033
08/22/2018
03
03/01/2016

	Section 1: Identification					
Product Name:	OxiDate® 2.0	Product Type / Description: Bactericide		Bactericide /	/ Fungicide	
Recommended Use:	Pesticide for commercial use.	Other Means of Identification:		Peracetic Acid, Peroxyacetic Acid, PAA		:d DAA
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 #:	1 70299-12 I		Canada PMRA Registration #:	32907
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.	
	H332: Harmful if inhaled.	
·	H335: May cause respiratory irritation.	
Pictograms	Signal Word	
	DANGER	
	autionary Statements	
General	Response	
P101: If medical advice is needed, have product container or label at		
hand.	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all	
P102: Keep out of reach of children. P103: Read label before use.	contaminated clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Move person to fresh air and keep comfortable for	
P103: Read label before use.	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.	P405: Store locked up.	
P220: Store away from combustible materials.	P406: Store in corrosive resistant container, never use metal containers.	
P221: Take any precautions to avoid mixing with combustibles.	P410: Protect from sunlight.	
P234: Keep only in original container.	P411: Store at temperatures not exceeding 55°C (131°F).	
P260: Do not breathe fumes, mist or vapors.	P420: Store away from incompatible materials.	
P262: Do not get in eyes, on skin or on clothing.		
P264: Wash thoroughly after handling.	P501: Dispose of contents/container in accordance with	
P270: Do not eat, drink, or smoke when using this product.	local/regional/national/international regulations.	
P271: Use only outdoors or in a well-ventilated area.		
P280: Wear protective gloves, clothing, eye protection, face protect	cion.	
Other Hazards: N/A	<u> </u>	



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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	2.5%
Acetic Acid	64-19-7	5.0%

	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. Neutralize spilled liquid with soda ash (sodium carbonate) spread over the surface at a rate of 0.7-1.0 pounds per gallon of spilled material. The resultant neutralized product will become carbon dioxide and water. 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 Workplace Control Parameters			
Component ACGIH NIOSH OSHA				
Acetic Acid	TWA 10 ppm	TWA: 25 mg/m <sup>3</sup> - 8 hours.	TWA: 25 mg/m <sup>3</sup> - 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 <sup>3</sup> - 8 hours.	TWA: 1.4 mg/m <sup>3</sup> - 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 t	use.		



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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.
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.		Pungent, vinegar-like.		Odor Threshold:	Not available.
pH:	<1.5	Specific Gravity:	Specific Gravity: 1.10 g/cm <sup>3</sup>		1.10 g/cm <sup>3</sup>		Viscosity:	Not available.
Melting Point:	Not available.	Freezing Point:	zing 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:			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:	Oral LD50: Rat 3622 mg/kg Dermal LD50:		Rabbit, 1040 mg/kg		Inhalation LC50:	4 hours – Rat 5350 mg/kg	
Likely Routes of Exposure: Inhalation, eye contact, skin contact.							
	Symptoms and Effects						
Condition		Acute Effects Chronic (Delayed) Effects					yed) Effects
Eye Conta	act: Causes	Causes serious eye damage.			None.		
Skin Conta	act: Causes	ct: Causes severe skin burns.			None.		
Inhalati	on: May ca	May cause respiratory tract irritation.			None.	•	
Ingesti	on: Harmfu	Harmful if swallowed.					

Section 12: Ecological Information								
Ecotoxicity: Toxic to single cell and aquatic organisms								
	Fish, Rainbow trout LC50, 48 hours > 40 mg/L; Crustaceans, EC 50, 48 hours 126.8 mg/L							
Persistence and Degradability: Weak persistence of degradation products.								
Bioaccumulation Potential:	Bioaccumulation Potential: Not available.							
Mobility in Soil: Non-significant adsorption soil degradation = 99% in 20 minutes.								
Other Adverse Effects: Avoid release 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	3149	Hydrogen peroxide and peroxyacetic acid mixtures, stabilized with	5.1 (8)	Oxidizer (Corrosive)	=	NO			
DOT		acids, water, and not more than 5 percent peroxyacetic acid							
CAN	3149	Hydrogen peroxide and peroxyacetic acid mixtures, stabilized with	5.1 (8)	Oxidizer (Corrosive)	=	NO			
TDG	TDG acids, water, and not more than 5 percent peroxyacetic acid								
Spe	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:				Acetic Acid 5000 lbs.						
SARA Title III Sec. 302/303	Peracetic Acid; Hydrogen Peroxide					Sec. 302 TPQ: Peracetic Acid 500			lbs.		
SARA Title III Sec. 311/312	Peracetic Acid Hazard Category: Acute Health,			e Health, R	eactivity, Fire S			Sec.	304 EHS RQ:	Peracetic Acid 500 lbs.	
US EPA EPCRA Sec. 313	Peracetic Acid			CAA Threshold Qty: 10,000 lb				,000 lb	S.		
NFPA Rating	Health:	2	Flammability:	0	Reactivi	ty: 3 Spe		Spec	ecial: OX (Oxidizer)		
HMIS Rating	Health:	2	Flammability:	0	Physic	al:	2	P	PPE: Recommended.		
CAN WHMIS Classification	CAN WHMIS Classification C – Oxidizing; E – Corrosive; F – Dangerously Reactive										
California Prop 65	California Prop 65 This product does not contain any substances known to the state of California to 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											

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

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## Bi⇔Safe Systems

OxiDate® 2.0 is a registered trademark of BioSafe Systems, LLC.

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

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#### **Key to Abbreviations**

- <b>,</b>						
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					