

protection.

SAFETY DATA SHEET (SDS)

OxiDate® 2.0

Form #:	SDS-033
Revision Date:	03/20/2019
Revision #:	04
Supersedes Date:	08/22/2018

Section 1: Identification				
Product Name:	OxiDate® 2.0	Product Type / Description:	Bactericide / Fungicide	
Recommended Use:	Bactericide / Fungicide for commercial use.	Other Means of Identification:	Peracetic Acid Solution, Peroxyacetic Acid Solution, PAA	
Use Restrictions:	It is a violation of federal law to use this product in a manner inconsistent with its labeling.	Chemical Formula:	CH ₃ CO ₃ H	
Manufacturer:	BioSafe Systems, LLC 22 Meadow Street East Hartford, CT 06108	EPA Registration #:	70299-12	
Telephone Number:	1-888-273-3088	Emergency Number: 1-800-424-9300 (CHEMTREC)		

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	Section 2: F	lazard	I Identification			
	GHS Classification			Hazard Statements		
Oxidizing Liquid: Cate		H272	2: May intensify fire, oxid			
Acute Toxicity		H302: Harmful if swallowed.				
Oral: Category 4		H312: Harmful in contact with skin.				
Dermal: Catego			: Causes severe skin bu	,		
Inhalation: Cate	- ,		3: Causes serious eye da	mage.		
Skin Corrosion/Irritati			2: Harmful if inhaled.	. inutantin n		
Serious Eye Damage/	ye Irritation: Category 1	H335	5: May cause respiratory	irritation.		
	Pictograms	l 		Signal Word		
		>		DANGER		
		ionary	Statements	Parameter		
General P101: If medical advice is needed, have product container or label at			LD220 LD221 · IE CWALL	Response OWED: Rinse mouth. Do not induce vomiting.		
hand.	e is fleeded, flave product container of laber at			(or hair): Take off immediately all contaminated		
P102: Keep out of rea	ch of children.		ing. Rinse skin with wat			
P103: Read label befo			_	ve person to fresh air and keep comfortable for		
			thing.			
		P305	+P351+P338: IF IN EYES	: Rinse cautiously with water for several minutes.		
				esent 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.				
		P363: Wash contaminated clothing before reuse.				
		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 fron	P210: Keep away from heat, sparks or open flames, no smoking.			P405: Store locked up.		
P220: Keep 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 ori		P411: Store at temperatures not exceeding 55°C (131°F).				
P260: Do not breathe fumes, mist or vapors.			: Store away from incon	npatible materials.		
P262: Do not get in eyes, on skin or on clothing.			DEGG. Dispose of contents (container is accordance with			
P264: Wash thoroughly after handling. P270: Do not eat, drink, or smoke when using this product.			P501: Dispose of contents/container in accordance with local/regional/national/international regulations.			
		local	, i egional/national/inter	national regulations.		
P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves, clothing, eye protection, face						
r 200. Wear protective gloves, clothing, eye protection, race						



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Section 3: Composition / Information on Ingredients			
Components	CAS-No	% Composition (w/w)	
Hydrogen Peroxide	7722-84-1	24.39 – 29.82%	
Peroxyacetic Acid	79-21-0	1.8 – 2.2%	
Acetic Acid	64-19-7	3.98 – 4.86%	

	Section 4: First-Aid Measures			
Eye	In case of eye contact, remove contact lenses and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.			
Contact:	See a medical doctor immediately.			
Skin	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek immediate medical			
Contact:	attention/advice.			
Ingestion:	Rinse mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately. If swallowed, do not			
	induce vomiting - seek medical advice.			
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Consult a			
	physician if necessary.			
Notes to	This product can be corrosive to skin, eyes, and mucous membranes. Careful gastric lavage should be considered. Observations may be			
Physician:	warranted. Treatment is controlled removal of exposure followed by supportive care.			

	Section 5: Fire-Fighting Measures				
	Suitable Exting	guishing Media:	Water spray.		
	Unsuitable Exting	guishing Media:	Carbon dioxide, alcohol foam, dry chemical. Heavy water stream can spread fire.		
Combustion Products: Corrosive vapors, acetic acid, carbon oxides.					
Unusual Fire and Explosion Product is not flammable but during a fire, product can decompose		e and Explosion	Product is not flammable but during a fire, product can decompose and generate oxygen which can initiate or		
Hazards:		Hazards:	promote combustion.		
	Protective Full chemical protection suits and boots (rubber or PVC) and self-contained breathing apparatus. Cordon the area to keep out all				
	Equipment for unnecessary personnel. Keep upwind. Use large quantities of water spray to fight fire. Cool containers / tanks with water spray. If				
	Firefighters:	Firefighters: safe to do, move product away from fire to secure area. Eliminate all possible sources of ignition and remove flammable material.			

Section 6: Accidental Release Measures			
Personal Precau	itions:	Ensure adequate ventilation. Avoid inhalation, ingestion and contact with skin and eyes.	
Emergency Proce	dures:	Ensure clean-up is conducted by trained personnel. Personnel should wear appropriate protective equipment. Remove	
		all sources of ignition. Keep people away from and upwind of spill/leak. If facing concentrations above exposure limits	
personnel shall wear certified respirators.		personnel shall wear certified respirators.	
Environmental Precautions: Prevent undiluted spillage from entering sewers, basements or watercourses.		Prevent undiluted spillage from entering sewers, basements or watercourses.	
Methods and	Methods and Dike to collect large liquid spills. Contain spills with earth or sand or inert absorbent. Stop leak and contain spill if this can be		
Material for	Material for done safely. Dilute with large quantities of water. If safe to do so, move product to secure area. Control runoff and isolate		
Containment and	Containment and discharged material for proper disposal. Do not seal waste material, do not use textiles, tissues, saw dust or combustible		
Clean-Up: materials to clean the spill. Do not return product to the original storage container/tank due to risk of decomposition.			

	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 a	thoroughly after handling. Avoid breathing fumes/mist/vapors. Use only outdoors or in a well-ventilated area.	
Storage:	Store in cool, ventilated area. Keep away from heat. Keep only in original container. Protect from sunlight. Store at temperatures not		
	exceeding 30°C (86°F) for product quality. Do not store near combustible materials.		
Incompatible Materials: Oxidizing agents, strong reducing agents, combustible materials, heavy metals.			
Compatible	Compatible Materials: 304L Stainless Steel, 316L Stainless Steel, Passivated Aluminum; High Density Polyethylene (HDPE), Polyvinyl Chloride (PVC)		

	Section 8: Exposure Controls / Personal Protection			
Components with Workplace Control Parameters				
Component	ACGIH	NIOSH	OSHA	
Acetic Acid	TWA: 10 ppm STEL: 15 ppm	TWA: 25 mg/m ³ - 8 hours. TWA: 10 ppm - 8 hours. IDLH: 50 ppm	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. IDLH: 75 ppm	TWA: 1.4 mg/m³ - 8 hours. TWA: 1 ppm - 8 hours.	
Peracetic Acid	STEL: 0.4 ppm			



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Engineering Controls:	Ensure adequate ventilation. Emergency eye wash stations / emergency showers should be available in the immediate vicinity of any potential exposure.		
General Hygienic Practices:	General Hygienic Practices: Do not eat, drink or smoke during use. Wash hands immediately after handling the product.		
Personal Protective Equipment			
Respiratory Protection:	Use NIOSH-approved air-purifying or supplied air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits. Recommended respirators are those with an organic vapor / acid gas cartridge.		
Eye / Face Protection:	Chemical resistant goggles or face shield if splashes are expected to occur.		
Hand Protection:	Rubber/latex/neoprene or other suitable chemical resistant gloves. Do not use leather or cotton gloves.		
Skin / Body Protection:	Wear non-combustible clothing and footwear (PVC, neoprene, nitrile or natural rubber).		

Section 9: Physical and Chemical Properties									
Appearance:	Clear, colorless liquid.	Odor:	Vinegar-like.		Odor Threshold:	NA			
Physical State:	Liquid.	pH:	<1.5		Specific Gravity:	1.10 – 1.12 g/cm ³			
Melting Point:	NA	Freezing Point:	-30°C (-22°F)		Boiling Point:	NA			
Flash Point:	NA	Flammability:	NA		Flammability Limits:	NA			
Vapor Pressure:	22 mm Hg (25°C)	Vapor Density:	NA		Solubility:	Complete.			
Evaporation	NA	Auto-Ignition	NA		Decomposition	SADT > 55°C (131°F)			
Rate:	IVA	Temperature:	IVA		Temperature:	3AU1 > 33 C (131 F)			
Relative Density:	NA	Partition Coeffic	ient n-octanol / water:	NA	Viscosity:	NA			

Section 10: Stability and Reactivity							
Reactivity: Reactive and oxidizing agent.							
Stability: Stable under recommended storage conditions.							
Conditions to Avoid: Open flames/heat sources, temperatures above 55°C (131°F), direct sunlight, combustible materials.							
Incompatible Materials: Acids, bases, reducing agents, organic materials, heavy 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 Rat:	3622 mg/kg	Dermal LD50 Rabbit:	1040 mg/	′kg	4 hr – 5350 mg/m ³				
	Symptoms and Effects								
Condition	A	Acute Effects		Chronic (Delayed) Effects					
Eye Contact:	Causes serious eye dama	age.		None.					
Skin Contact:	Causes severe skin burns	S.		None.					
Inhalation:	May cause respiratory tr	act irritation.	None.						
Ingestion:	Probable mucosal dama	ge.		None.					

Section 12: Ecological Information								
Dur		n	Species	Value				
Ecotoxicity:	48 hr LC50		Oncorhynchus mykiss (rainbow trout)	40 mg/L				
	48 hr EC50		Daphnia magna	126.8 mg/L				
Persistence and	Degradability:	Peracetion	tic acid is completely miscible with water. Product is biodegradable due to chemical properties.					
Bioaccumul	Bioaccumulative Potential: Does r		not bioaccumulate.					
ı	Mobility in Soil:		Non-significant adsorption soil degradation, >99% in 20 minutes.					
Results of PBT & vPvB: This mix		This mixt	s mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).					
Other Adverse Effects: None known.								

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 containers. Triple rinse empty containers with clean water. Clean and empty							
	containers should be taken to an approved waste handling site for recycling or disposal.						



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Section 14: Transport Information									
UN N	umber		UN Proper Shipping Name	Hazard Class (Subsidiary)	Packing Group	IATA	Marine Pollutant		
DOT	3149	Hydrogen p	eroxide and Peroxyacetic acid mixture, with acid(s), water and not more than 5% Peroxyacetic acid, stabilized	5.1 (8)	Ш	Not permitted for shipment			
TDG	3149	Hydrogen p	peroxide and Peroxyacetic acid mixture, with acid(s), water and not more than 5% Peroxyacetic acid, stabilized	5.1 (8)	II	by air.			
IMDG	3149	Hydrogen p	peroxide and Peroxyacetic acid mixture, with acid(s), water and not more than 5% Peroxyacetic acid, stabilized	5.1 (8)	II		No		
	Special F	Precautions:	Shipping container: UN certified vented polyethylene						

Shipping Placards:





					Section 15	: Regulat	ory Inform	atior	n				
TSCA Inventory List					US EPA CERCLA Hazardous Substances						Clean Water Act		
Acetic Acid Yes					Acetic Acid 5000 lbs. 50					5000 lbs.			
Hydrogen Peroxide Yes				Hydrogen Peroxide NA N				Ν	NA				
Peracetic Acid Yes					Perad	etic Acid	NA		N	IA			
						SARA Ti	tle III						
	Sec. 3	02 TPQ.	Sec 304	RQ.	Sec 31:	1 / Sec 31	L2 Hazard C	ateg	ory		Sec 313	Clean Air Act Threshold Qty	
Acetic Acid	1	NA	NA				NA				NA	NA	
Hydrogen	100	0 lbs.	1000 II	os.*		Physica	l: Oxidizer				NA	NA	
Peroxide					Health: Acute Toxicity; Skin Corrosion or Irritation; Serious								
	Eye Damage or Eye Irritation; Specific target organ toxicity						toxicity						
Peracetic	acetic 500 lbs. 500 lbs.				Physical: Organic Peroxide; Corrosive to Metals					ls	Yes	10000 lbs.	
Acid					Health: Acute Toxicity; Skin Corrosion or Irritation; Serious								
					Eye Damage or Eye	e Irritatio	n; Specific t	arge	t organ t	toxicity			
*Hydrogen Pe	eroxide	Reportabl	e Quantity	only a	oplies to concentratio	ons > 52%	Ś						
N	FPA 704	Rating	Health:	2	Flammability:	0	Reactivit	y:	3	Special:	OX (Oxi	dizer)	
	HMIS	Rating	Health:	2	Flammability:	0	Physica		2	PPE:		mended. (H)	
Unifo	orm Fire	Code (NI	FPA 400)	Oxidiz	er, Class 2, Liquid					•	•		
		This pro	duct does	not con	tain any substances	known to	the state o	of Cal	lifornia t	o cause ca	ncer. deve	elopmental and/or	
California Pr	op 65		This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.										
		This pro	duct is a re	gistere	d pesticide with the	United St	ates Enviro	nme	ntal Prot	ection Ag	ency (EPA)	. These requirements may	
	FIFDA											the Global Harmonized	
	FIFRA											o use this product in a manne	
					ing. Always refer to p								

Section 16: Other Information

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

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