

OxiDate[®] 2.0

Form #:	SDS-033
Revision Date:	12/09/2019
Revision #:	05
Supersedes Date:	03/20/2019
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	Section 1: Identification		
Product Name:	OxiDate [®] 2.0	Product Type / Description:	Bactericide / Fungicide
Recommended Use:	Bactericide / Fungicide for commercial use.		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)	

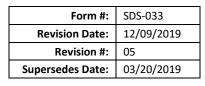
Section 2: Hazard Identification		
GHS Classification	Hazard Statements	
Oxidizing Liquid: Category 2	H272: May intensify fire, oxidizer.	
Acute Toxicity	H302: Harmful if swallowed.	
Oral: Category 4	H312: Harmful in contact with skin.	
Dermal: Category 4	H314: Causes severe skin burns and eye damage.	
Inhalation: Category 4 H318: Causes serious eye damage.		
Skin Corrosion/Irritation: Category 1A	H332: Harmful if inhaled.	
Serious Eye Damage/Eye Irritation: Category 1	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	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting.	
hand.	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated	
P102: Keep out of reach of children.	clothing. Rinse skin with water/shower.	
P103: Read label before use.	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.	
	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 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 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		
protection.		



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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 Extinguishing Media: Water spray.		Water spray.
Unsuitable Exting	uishing Media:	Carbon dioxide, alcohol foam, dry chemical. Heavy water stream can spread fire.
Combu	stion Products:	Corrosive vapors, acetic acid, carbon oxides.
Unusual Fire and Explosion Product is not flammable but during a fire, product can decompose and generate oxygen which can initiate or		Product is not flammable but during a fire, product can decompose and generate oxygen which can initiate or
Hazards: promote combustion.		promote combustion.
Protective	rotective Full chemical protection suits and boots (rubber or PVC) and self-contained breathing apparatus. Cordon the area to keep out all	
Equipment for	ent 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.	
Environmental Precau	ntal Precautions: Prevent undiluted spillage from entering sewers, basements or watercourses.	
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	done safely. Dilute with large quantities of water. If safe to do so, move product to secure area. Control runoff and isolate	
Containment and	discharged material for proper disposal. Do not seal waste material, do not use textiles, tissues, saw dust or combustible	
Clean-Up:	ean-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:	andling: Wear protective gloves/eye protection/face protection/body, skin protection. Do not eat, drink, or smoke when using this product. Wash		
	thoroughly a	after handling. Avoid breathing fumes/mist/vapors. Use only outdoors or in a well-ventilated area.	
Storage:	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.		
Incompatibl	Incompatible Materials: Oxidizing agents, strong reducing agents, combustible materials, heavy metals.		
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	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/m ³ - 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: 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)		-30°C (-22°F)		Boiling Point:	NA	
Flash Point:	NA	Flammability:	NA		NA		Flammability Limits:	NA	
Vapor Pressure:	22 mm Hg (25°C)	Vapor Density:	NA		Solubility:	Complete.			
Evaporation	NA	Auto-Ignition	NIA		Decomposition	SADT > 55°C (131°F)			
Rate:	INA	Temperature:	NA		Temperature:	3AUT > 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:	Oral LD50 Rat: 3622 mg/kg Dermal LD50 Rabbit: 1040 mg/				Inhalation LC50 Rat:	4 hr – 5350 mg/m ³			
	Symptoms and Effects								
Condition	A	cute Effects	Chronic (Delayed) Effects						
Eye Contact:	Causes serious eye dama	ige.	None.						
Skin Contact:	Causes severe skin burns			None.					
Inhalation:	May cause respiratory tr	act irritation.	None.						
Ingestion:	Probable mucosal damage	ge.	None.						

Section 12: Ecological Information								
	cotoxicity: 48 hr LC50		Species	Value				
Ecotoxicity:			Oncorhynchus mykiss (rainbow trout)	40 mg/L				
	48 hr EC50		Daphnia magna	126.8 mg/L				
Persistence and	Degradability:	Peraceti	etic acid is completely miscible with water. Product is biodegradable due to chemical properties.					
Bioaccumul	ative Potential:	Does no	es not bioaccumulate.					
1	Mobility in Soil: Non		Non-significant adsorption soil degradation, >99% in 20 minutes.					
Results of PBT & vPvB: This mix			is mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).					
Other A	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	UN Number		UN Proper Shipping Name	Hazard Class (Subsidiary)	Packing Group	ΙΑΤΑ	Marine Pollutant		
DOT	3149	Hydrogen p	peroxide 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 Precautions: Shipping container: UN certified vented polyethylene								
	Shippi	ng Placards:	OXIDIZER 5.1 8						

				Section 15: Regulatory Inform	ation		
TSCA Inventory List				US EPA CERCLA Hazardous Subs	Clean Water Act		
Aceti	Acetic Acid Yes		Yes	Acetic Acid	Acetic Acid 5000 lbs. 5		
Hydrogen Pei	Hydrogen Peroxide Yes		Yes	Hydrogen Peroxide NA N			
Peraceti	c Acid		Yes	Peracetic Acid NA N			
				SARA Title III			
	Sec. 3	02 TPQ.	Sec 304 RQ.	Sec 311 / Sec 312 Hazard C	Category	Sec 313	Clean Air Act Threshold Qty.
Acetic Acid	I	NA	NA	NA		NA	NA
Hydrogen	100	00 lbs.	1000 lbs.*	Physical: Oxidizer		NA	NA
Peroxide	roxide Health: Acute Toxicity; Skin Corrosion or Irritation; Serious						
				Eye Damage or Eye Irritation; Specific t	target organ toxicity		
Peracetic	500	0 lbs.	500 lbs.	Physical: Organic Peroxide; Corro	Yes	10000 lbs.	
Acid				Health: Acute Toxicity; Skin Corrosion or Irritation; Serious			
	Eye Damage or Eye Irritation; Specific target organ toxicity						
*Hydrogen Pe	eroxide	Reportabl	e Quantity only	applies to concentrations > 52%			
California Pr	on 65	This proc	duct does not c	ontain any substances known to the state c	of California to cause	cancer, deve	elopmental and/or
Camornia Pr	00 05	reproduc	ctive harm.				
			0	red pesticide with the United States Enviro		0 / 1	
	FIFRA			ation criteria and hazard information requir			
		Systems	(GHS), and for	workplace labels of non-pesticide chemical	s. It is a violation of I	Federal law t	o use this product in a manner
		inconsist	ent with its lab	eling. Always refer to product label for furt	her precautionary in	formation ar	nd 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.

For additional information, call us toll-free at 1.888.273.3088 or visit <u>www.biosafesystems.com</u> ©2019 BioSafe Systems, LLC.



Uniform Fire Code (NFPA 400)		Oxidizer	Class 2, Liquid	-	,			
HMIS Rating	Health:	2	Flammability:	0	Physical:	2	PPE:	Recommended. (H)
NFPA 704 Rating	Health:	2	Flammability:	0	Reactivity:	1	Special:	OX (Oxidizer)