

OxiDate[®] 5.0

Form #:	SDS-060		
Revision Date:	10/07/2020		
Revision #:	02		
Supersedes Date:	01/04/2019		

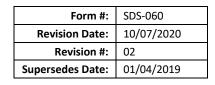
Section 1: Identification					
Product Name:	OxiDate [®] 5.0	Product Type / Description: Fungicide / Bactericide / Algaecide			
Recommended	Fungicide / Bactericide / Algaecide for commercial	Other Means of Peracetic Acid Solution, Peroxyacetic Acid			
Use:	use	Identification:	Solution, PAA		
Use Restrictions:	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 #: 70299-28			
Telephone Number:	1-888-273-3088	Emergency Number: 1-800-424-9300 (CHEMTREC)			

Section 2: Hazard Identification			
GHS Classification	Hazard Statements		
Organic Peroxide: Type F	H242: Heating may cause fire.		
Corrosive to Metals: Category 1	H290: May be corrosive to metals.		
Acute Toxicity	H302: Harmful if swallowed.		
Oral: Category 4	H314: Causes severe skin burns and eye damage.		
Dermal: Category 4	H332: Harmful if inhaled.		
Inhalation: Category 4 H335: May cause respiratory irritation.			
Skin Corrosion/Irritation: Category 1A			
Serious Eye Damage/Eye Irritation: Category 1			
Specific Target Organ Toxicity (Single Exposure): Category 3			
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.					



OxiDate[®] 5.0



Section 3: Composition / Information on Ingredients						
Components CAS-No % Composition (w/w)						
Hydrogen Peroxide	7722-84-1	24.30 - 29.70%				
Peroxyacetic Acid	79-21-0	4.50 - 5.50%				
Acetic Acid	64-19-7	7.20 - 8.80%				

.

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	guishing 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 Prod		Product is not flammable but during a fire, product can decompose and generate oxygen which can initiate or		
	Hazards:	promote combustion.		
Protective	Protective Full chemical protection suits and boots (rubber or PVC) and self-contained breathing apparatus. Cordon the area to keep out all			
Equipment for	nent for unnecessary personnel. Keep upwind. Use large quantities of water spray to fight fire. Cool containers / tanks with water spray. If			
Firefighters:	nters: 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 Precautions: Prevent undiluted spillage from entering sewers, basements or watercourses.		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:	mater	rials 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 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.		
Incompatibl	Incompatible Materials: Oxidizing agents, strong reducing agents, combustible materials, heavy metals.		
Compatibl	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/m ³ - 8 hours. TWA: 1 ppm - 8 hours.			
Peracetic Acid	STEL: 0.4 ppm					



OxiDate[®] 5.0

Form #: SDS-060 Revision Date: 10/07/2020 Revision #: 02 Supersedes Date: 01/04/2019

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:	Pungent, vinegar-like.		Odor Threshold:	NA
Physical State:	Liquid.	pH:	<1.5	<1.5		1.11 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 (30°C)	Vapor Density:	NA		Solubility:	Complete.
Evaporation	NA	Auto-Ignition	NA		Decomposition	SADT > 55°C (131°F)
Rate:	NA	Temperature:	perature:		Temperature:	SADT > 55 C (151 F)
Relative Density:	NA	Partition Coeffic	ient n-octanol / water:	NA	Viscosity:	NA

Section 10: Stability and Reactivity							
Reactivity: Reactive and oxidizing agent, organic peroxide.							
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 combustio							

Section 11: Toxicological Information										
	Acute Toxicological Data									
Oral LD50 Rat:	330 mg/kg	Dermal LD50 Rabbit:	1410 mg/k	ga	Inhalation LC50 Rat:	4 hr – 4080 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	5.		None.						
Inhalation	May cause respiratory tr	act irritation.	None.							
Ingestion	Probable mucosal damage	ge.	None.							

Section 12: Ecological Information									
	Duration		Species	Value					
	96 hr LC50)	Salmo gairdneri	13 mg/L (NOEC <10 mg/L)					
Ecotoxicity:	96 hr LC50)	Pleuronectes platessa	89.1 mg/L (NOEC 56 mg/L) (12% solution)					
Ecoloxicity.	48 hr EC50		Daphnia magna	3.3 mg/L (NOEC 1 mg/L)					
	96 hr EC50		Crangon crangon	126.8 mg/L (NOEC 56 mg/L) (12% solution)					
	5 min EC100		Pseudomonas aeruginosa	5 mg/L					
Persistence an	d Degradability:	Weak persistence of degradation products.							
Bioaccumu	lative Potential:	Does not bioaccumulate.							
	Mobility in Soil:	Non-significant adsorption soil degradation, >99% in 20 minutes.							
Result	s of PBT & vPvB:	This 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.						



OxiDate® 5.0

Form #:	SDS-060		
Revision Date:	10/07/2020		
Revision #:	02		
Supersedes Date:	01/04/2019		

	Section 14: Transport Information										
UN Number			UN Proper Shipping Name	Hazard Class (Subsidiary)	Packing Group	ΙΑΤΑ	Marine Pollutant				
DOT	3109	Organic per	oxide type F, liquid (Peroxyacetic Acid, Type F, Stabilized, <43%)	5.2 (8)	NA	Not permitted					
TDG	3109	Organic per	oxide type F, liquid (Peroxyacetic Acid, Type F, Stabilized, <43%)	5.2 (8)	NA	for shipment					
IMDG	3109	Organic per	oxide type F, liquid (Peroxyacetic Acid, <43%)	5.2 (8)		by air.	No				
	Special I	Precautions:	Shipping container: UN certified vented polyethylene								
Shipping Placards:		ng Placards:	ORGANIC PEROXIDE 5.2 8								

					Section 15	: Regula	tory Inforn	natio	n					
TSCA Inventory List					US EPA CERCLA Hazardous Substances						Clean Water Act			
Acetic Acid Yes					Acetic Acid 5000 lbs.				5000 lbs.					
Hydrogen Peroxide Yes					H	ydrogen	Peroxide	NA			NA			
Peracetic Acid Yes						Pera	cetic Acid	NA			NA			
						SARA T	itle III							
	Sec. 30	2 TPQ.	Sec 30	4 RQ.	Sec 31:	1 / Sec 3	312 Hazard	Cate	gory		Sec 313	Clean Air Act Threshold Qty.		
Acetic Acid	Acetic Acid NA NA						NA				NA	NA		
Hydrogen	1000) lbs.	1000	lbs.*		Physic	cal: Oxidize	r			NA	NA		
Peroxide					Health: Acute Toxicity; Skin Corrosion or Irritation; Serious									
					Eye Damage or Eye Irritation; Specific target organ toxicity									
Peracetic	500 lbs.		00 lbs. 500 lbs. Physical: Organic Peroxide; Corrosive to Metals						Yes	10000 lbs.				
Acid					Health: Acute Toxicity; Skin Corrosion or Irritation; Serious									
				Eye Damage or Eye Irritation; Specific target organ toxicity										
*Hydrogen Pe	eroxide Re	eportable	e Quantity	only ap	plies to concentratio	ns > 52%	%							
N	FPA 704 I	Rating	Health:	3	Flammability:	1	Reactivi	ty:	1	Specia	al: OX (Oxidizer)			
	HMIS	Rating	Health:	3	Flammability:	1	Physic	-	1 PPE: Recommended. (B)					
Unifo	orm Fire (Code (NF	PA 400)	Organi	c Peroxide: Class IV,	Liquid						· · ·		
California Pro	00.65		luct does r tive harm.		ain any substances k	nown to	o the state	of Cal	lifornia to	o cause c	ancer, deve	lopmental and/or		
	1	This product is a registered sanitizer / disinfectant 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												
F												larmonized Systems (GHS),		
												ct 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. Revised: 10/07/2020 IMDG Language changed.

For additional information, call us toll-free at 1.888.273.3088 or visit <u>www.biosafesystems.com</u> ©2020 BioSafe Systems, LLC.

