


SAFETY DATA SHEET (SDS)

OxiPhos[®]

Form #:	SDS-070
Revision Date:	09/30/2019
Revision #:	03
Supersedes Date:	01/16/2019

Section 1: Identification			
Product Name:	OxiPhos [®]	Product Type / Description:	Bactericide / Fungicide
Recommended Use:	Bactericide / Fungicide for commercial use	Other Means of Identification:	Neutralized Phosphorous Acid / Hydrogen Peroxide Solution
Use Restrictions:	It is a violation of federal law to use this product in a manner inconsistent with its labeling.	EPA Registration #:	70299-22
Manufacturer:	BioSafe Systems, LLC 22 Meadow Street East Hartford, CT 06108		
Telephone Number:	1-888-273-3088	Emergency Number: 1-800-424-9300 (CHEMTREC)	

Section 2: Hazard Identification			
GHS Classification		Hazard Statements	
Oxidizing Liquid: Category 3 Acute Toxicity Inhalation: Category 4 Skin Corrosion/Irritation: Category 2 Serious Eye Damage/Eye Irritation: Category 1		H272: May intensify fire; oxidizer. H302: Harmful if swallowed. H315: Causes skin irritation. H318: Causes serious eye damage. H332: Harmful if inhaled.	
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.		P301+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. P280: Wear protective gloves, clothing, eye protection, face protection.		P405: Store locked up. 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.	

Section 3: Composition / Information on Ingredients		
Components	CAS-No	% Composition (w/w)
Mono and Di Potassium Salts of Phosphorus Acid* <i>*Contains 17.7% phosphorus acid by weight</i>	-	27.1%
Hydrogen Peroxide	7722-84-1	14.0%
Inert Ingredients	-	58.9%

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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.
Notes to Physician:	This product can be corrosive to skin, eyes, and mucous membranes. Careful gastric lavage should be considered.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	Use media appropriate for surrounding conditions. Water, foam, dry powder or carbon dioxide.
Unsuitable Extinguishing Media:	None known.
Combustion Products:	May produce oxides of phosphorous or phosphines.
Unusual Fire and Explosion Hazards:	Product (concentrate) can decompose and will release oxygen thereby adding to the fire hazard.
Protective Equipment for Firefighters:	Full chemical protection suits and boots (rubber or PVC) and self-contained breathing apparatus. Cordon the area to keep out all unnecessary personnel. Keep upwind. Use large quantities of water spray to fight fire. Cool containers / tanks with water spray. If 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 Precautions:	Ensure adequate ventilation. Avoid inhalation, ingestion and contact with skin and eyes.
Emergency Procedures:	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.
Methods and Material for Containment and Clean-Up:	Rinse small amounts to drain when possible. Dike or dam large spills, pump to containers or soak in inert absorbent. Flush residue to sanitary sewer, rinse area thoroughly with clean water. Avoid materials that are incompatible with concentrate. Waste Disposal: Consult state and local authorities for restrictions on disposal of chemical wastes.

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.
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.
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
Mono and Di Potassium Salts of Phosphorus Acid	NA	NA	NA
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.

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 goggles or face shield.

Hand Protection: Chemical resistant gloves.

Skin / Body Protection: Wear suitable protective clothing.

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Section 9: Physical and Chemical Properties

Appearance:	Clear, colorless liquid.	Odor:	None.	Odor Threshold:	NA
Physical State:	Liquid.	pH:	4.85	Specific Gravity:	1.35 g/cm ³
Melting Point:	NA	Freezing Point:	NA	Boiling Point:	NA
Flash Point:	NA	Flammability:	NA	Flammability Limits:	NA
Vapor Pressure:	NA	Vapor Density:	NA	Solubility:	Complete.
Evaporation Rate:	NA	Auto-Ignition Temperature:	NA	Decomposition Temperature:	SADT > 55°C (131°F)
Relative Density:	NA	Partition Coefficient n-octanol / water:	NA	Viscosity:	NA

Section 10: Stability and Reactivity

Reactivity:	Reactive and oxidizing agent.
Stability:	Stable under normal conditions, with slow oxygen release.
Conditions to Avoid:	Heat sources, direct sunlight.
Incompatible Materials:	Acids / Bases / Reducing Agents / Organic Materials / Metals / Salts of Metals.
Hazardous Decomposition Products:	NA

Section 11: Toxicological Information

Acute Toxicological Data

Oral LD50 Rat:	>5000 mg/kg	Dermal LD50 Rat:	>5000 mg/kg	Inhalation LC50 Rat:	4 hr – >2.06 mg/m ³
Symptoms and Effects					
Condition	Acute Effects			Chronic (Delayed) Effects	
Eye Contact:	Causes serious eye damage.			None.	
Skin Contact:	Causes skin irritation.			None.	
Inhalation:	May cause respiratory tract irritation.			None.	
Ingestion:	Harmful if swallowed.			None.	

Section 12: Ecological Information

Ecotoxicity:	Duration	Species	Value
	96 hr LC50	<i>Oncorhynchus mykiss</i> (rainbow trout)	>118 mg/L
	48 hr EC50	<i>Daphnia magna</i>	>118 mg/L
Persistence and Degradability:	Weak persistence of degradation products.		
Bioaccumulative Potential:	NA		
Mobility in Soil:	Non-significant adsorption soil degradation = 99% in 20 minutes.		
Results 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.

Section 14: Transport Information

UN Number	UN Proper Shipping Name	Hazard Class (Subsidiary)	Packing Group	IATA	Marine Pollutant
DOT 2984	Hydrogen, peroxide, aqueous solutions with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary)	5.1	III	Not permitted for shipment by air.	
TDG 2984	Hydrogen, peroxide, aqueous solutions with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary)	5.1	III		
IMDG 2984	Hydrogen, peroxide, aqueous solutions with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary)	5.1			No

Special Precautions: None known.

Shipping Placards:



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Section 15: Regulatory Information				
TSCA Inventory List		US EPA CERCLA Hazardous Substances		Clean Water Act
Mono and Di Potassium Salts of Phosphorus Acid	Yes	Hydrogen Peroxide	NA	NA
Hydrogen Peroxide	Yes	Mono and Di Potassium Salts of Phosphorus Acid	NA	NA

SARA Title III					
	Sec. 302 TPQ.	Sec 304 RQ.	Sec 311 / Sec 312 Hazard Category	Sec 313	Clean Air Act Threshold Qty.
Mono and Di Potassium Salts of Phosphorus Acid	NA	NA	NA	NA	NA
Hydrogen Peroxide	1000 lbs.	1000 lbs.*	Physical: Oxidizer Health: Acute Toxicity; Skin Corrosion or Irritation; Serious Eye Damage or Eye Irritation; Specific target organ toxicity	NA	NA

*Hydrogen Peroxide Reportable Quantity only applies to concentrations > 52%

California Prop 65	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.
FIFRA	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.

For additional information, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com
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NFPA 704 Rating	Health:	2	Flammability:	0	Reactivity:	1	Special:	OX (Oxidizer)
HMIS Rating	Health:	2	Flammability:	0	Physical:	1	PPE:	(B)
Uniform Fire Code (NFPA 400)	Oxidizer: Class 1, Liquid							