


Form #:	SDS-050
Revision Date:	01/08/2021
Revision #:	07
Supersedes Date:	07/30/2020

Section 1: Identification			
<b>Product Name:</b>	SaniDate® HC	<b>Product Type / Description:</b>	Bactericide, Fungicide, and Algaecide
<b>Recommended Use:</b>	Bactericide, Fungicide, and Algaecide for water treatment.	<b>Other Means of Identification:</b>	Peracetic Acid, Peroxyacetic Acid, PAA
<b>Use Restrictions:</b>	It is a violation of federal law to use this product in a manner inconsistent with its labeling.		
<b>Manufacturer:</b>	<b>BioSafe Systems, LLC</b> 22 Meadow Street   East Hartford, CT 06108	<b>EPA Registration #:</b>	70299-31
<b>Telephone Number:</b>	1-888-273-3088	<b>Emergency Number: 1-800-424-9300 (CHEMTREC)</b>	

Section 2: Hazard Identification	
<b>GHS Classification</b>	<b>Hazard Statements</b>
Flammable Liquids: Category 3 Organic Peroxide: Type F Corrosive to Metals: Category 1 Acute Toxicity: Oral: Category 4 Dermal: Category 4 Inhalation: Category 1 Skin Corrosion/Irritation: Category 1A Serious Eye Damage/Eye Irritation: Category 1 Specific Target Organ Toxicity (Single Exposure): Category 3	H226: Flammable liquid and vapor. H242: Heating may cause fire. H290: May be corrosive to metals. H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H330: Fatal if inhaled H332: Harmful if inhaled. H335: May cause respiratory irritation.
<b>Pictograms</b>	<b>Signal Word</b>
	<b>POISON DANGER</b>
Precautionary Statements	
<b>General</b>	<b>Response</b>
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.
<b>Prevention</b>	<b>Storage / Disposal</b>
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. P233: Keep container tightly closed. P242: Use only non-sparking tools. 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. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves, clothing, eye protection, face protection.	P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up. P406: Store in corrosive resistant container, never use metal containers. 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.

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### Section 3: Composition / Information on Ingredients

Components	CAS-No	% Composition (w/w)
Hydrogen Peroxide	7722-84-1	20.7 – 25.3%
Peroxyacetic Acid	79-21-0	25.2 – 30.8%
Acetic Acid	64-19-7	16.1 – 19.7%

### Section 4: First-Aid Measures

<b>Eye Contact:</b>	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.
<b>Skin Contact:</b>	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.
<b>Inhalation:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.
<b>Ingestion:</b>	Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. 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.
<b>Notes to Physician:</b>	Probable mucosal damage may contraindicate the use of gastric lavage.

### Section 5: Fire-Fighting Measures

<b>Suitable Extinguishing Media:</b>	Water or water spray.
<b>Unsuitable Extinguishing Media:</b>	Dry chemical, alcohol foam, or carbon dioxide.
<b>Combustion Products:</b>	Oxygen released in thermal decomposition may support combustion.
<b>Unusual Fire and Explosion Hazards:</b>	Product can decompose and generate oxygen which can initiate or promote combustion. Strong oxidizer.
<b>Protective Equipment for Firefighters:</b>	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

<b>Personal Precautions:</b>	Ensure adequate ventilation. Avoid inhalation, ingestion and contact with skin and eyes.
<b>Emergency Procedures:</b>	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.
<b>Environmental Precautions:</b>	Prevent undiluted spillage from entering sewers, basements or watercourses.
<b>Methods and Material for Containment and Clean-Up:</b>	Dike to collect large liquid spills. Contain spills with earth or sand or inert absorbent. Stop leak and contain spill if this can be done safely. Dilute with large quantities of water. If safe to do so, move product to secure area. Control runoff and isolate discharged material for proper disposal. Do not seal waste material, do not use textiles, tissues, saw dust or combustible 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

<b>Handling:</b>	Wear protective gloves/eye protection/face protection/body, skin protection. Wash thoroughly after handling. Avoid breathing fumes/mist/vapors. Use only outdoors or in a well-ventilated area. Use only compatible equipment.
<b>Storage:</b>	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.
<b>Incompatible Materials:</b>	Store away from combustible materials. Keep concentrate away from reactive substances and organic materials.

### 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 <sup>3</sup> - 8 hours. TWA: 10 ppm - 8 hours. IDLH: 50 ppm	TWA: 25 mg/m <sup>3</sup> - 8 hours. TWA: 10 ppm - 8 hours.
Hydrogen Peroxide	TWA: 1 ppm	TWA: 1.4 mg/m <sup>3</sup> - 8 hours. TWA: 1 ppm - 8 hours. IDLH: 75 ppm	TWA: 1.4 mg/m <sup>3</sup> - 8 hours. TWA: 1 ppm - 8 hours.
Peracetic Acid	STEL: 0.4 ppm		
<b>Engineering Controls:</b>	Ensure adequate ventilation. Emergency eye wash station and emergency shower should be available in the immediate vicinity of any potential exposure.		
<b>General Hygienic Practices:</b>	Do not eat, drink, or smoke during use.		

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<b>Respiratory Protection:</b>	Use NIOSH-approved air-purifying or supplied air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits. Full face respirator with organic vapor/acid gas cartridges is recommended.
<b>Eye / Face Protection:</b>	Chemical goggles or face shield.
<b>Hands:</b>	Chemical resistant gloves. Do not wear leather or cotton gloves.
<b>Skin / Body:</b>	Wear suitable protective clothing. Apron and boots made of butyl rubber for high risk exposure.

### Section 9: Physical and Chemical Properties

<b>Appearance:</b>	Clear, colorless liquid.	<b>Odor:</b>	Pungent, vinegar-like.	<b>Odor Threshold:</b>	NA
<b>Physical State:</b>	Liquid.	<b>pH:</b>	3.05 (1% solution)	<b>Specific Gravity:</b>	1.19 g/cm <sup>3</sup>
<b>Melting Point:</b>	NA	<b>Freezing Point:</b>	NA	<b>Boiling Point:</b>	NA
<b>Flash Point:</b>	60.0°C (140°F)	<b>Flammability:</b>	NA	<b>Flammability Limits:</b>	NA
<b>Vapor Pressure:</b>	20 mm HG at 25°C	<b>Vapor Density:</b>	NA	<b>Solubility:</b>	Complete.
<b>Evaporation Rate:</b>	NA	<b>Auto-ignition Temperature:</b>	NA	<b>Decomposition Temperature:</b>	SADT > 55°C (131°F)
<b>Relative Density:</b>	NA	<b>Partition Coefficient n-octanol / water:</b>	NA	<b>Viscosity:</b>	1.91 centipoise at 25°C 1.42 centipoise at 39°C

### Section 10: Stability and Reactivity

<b>Reactivity:</b>	Reactive and oxidizing agent, organic peroxide.
<b>Stability:</b>	Stable under recommended storage conditions. Potential for exothermic hazard.
<b>Conditions to Avoid:</b>	Open flames, elevated temperatures, heat sources, direct sunlight. Combustible materials. Contamination.
<b>Incompatible Materials:</b>	Acids, Bases, Metals, Salts of metals, Reducing agents, Organic materials, Flammable materials.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition generates corrosive vapors, acetic acid and oxygen which supports combustion.

### Section 11: Toxicological Information

#### Acute Toxicological Data

<b>Oral LD50 Rat:</b>	<50 mg/kg bw	<b>Dermal LD50 Rat:</b>	<2,000 mg/kg bw	<b>Inhalation LC50 Rat:</b>	4 hr – 0.053 – 0.073 mg/L
<b>Symptoms and Effects</b>					
<b>Condition</b>	<b>Acute Effects</b>		<b>Chronic (Delayed) Effects</b>		
<b>Eye Contact:</b>	Causes serious eye damage.		None.		
<b>Skin Contact:</b>	Causes severe skin burns.		None.		
<b>Inhalation:</b>	May cause respiratory tract irritation.		None.		
<b>Ingestion:</b>	Harmful if swallowed.		None.		

### Section 12: Ecological Information

<b>Ecotoxicity:</b>	Not available.
<b>Persistence and Degradability:</b>	Peracetic acid is completely miscible with water. Product is biodegradable due to chemical properties.
<b>Bioaccumulative Potential:</b>	Does not bioaccumulate.
<b>Mobility in Soil:</b>	Non-significant adsorption soil degradation, >99% in 20 minutes.
<b>Results of PBT &amp; vPvB:</b>	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
<b>Other Adverse Effects:</b>	None known.

### Section 13: Disposal Considerations

<b>Waste from Residues and Unused Product:</b>	Dispose of waste material in accordance with all local, regional, national, provincial, territorial, and international regulations.
<b>Contaminated Container Disposal:</b>	Do not reuse or refill this container. Triple rinse empty containers with clean water and dispose of rinsate in accordance with local regulations. Clean and empty containers can be recycled by qualified contractors.

### Section 14: Transport Information

UN Number	UN Proper Shipping Name	Hazard Class (Subsidiary)	Packing Group	IATA	Marine Pollutant
<b>DOT</b> 3109	Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, Stabilized, <43%)	5.2	NA	Not permitted for shipment by air.	No
<b>TDG</b> 3109	Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, Stabilized, <43%)	5.2	NA		
<b>IMDG</b> 3109	Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, Stabilized, <43%)	5.2			
<b>Special Precautions:</b>		Shipping container: UN certified vented polyethylene			

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Shipping Placards:	
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Section 15: Regulatory Information				
TSCA Inventory List		US EPA CERCLA Hazardous Substances		Clean Water Act
Acetic Acid	Yes	Acetic Acid	5000 lbs.	5000 lbs.
Hydrogen Peroxide	Yes	Hydrogen Peroxide	NA	NA
Peracetic Acid	Yes	Peracetic 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.
Acetic Acid	NA	NA	NA	NA	NA
Hydrogen Peroxide	1000 lbs.	1000 lbs.*	<b>Physical:</b> Oxidizer <b>Health:</b> Acute Toxicity; Skin Corrosion or Irritation; Serious Eye Damage or Eye Irritation; Specific target organ toxicity	NA	NA
Peracetic Acid	500 lbs.	500 lbs.	<b>Physical:</b> Organic Peroxide; Corrosive to Metals <b>Health:</b> Acute Toxicity; Skin Corrosion or Irritation; Serious Eye Damage or Eye Irritation; Specific target organ toxicity	Yes	10000 lbs.

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

<b>NFPA 704 Rating</b>	<b>Health:</b>	<b>3</b>	<b>Flammability:</b>	<b>2</b>	<b>Reactivity:</b>	<b>2</b>	<b>Special:</b>	OX (Oxidizer)
<b>HMIS Rating</b>	<b>Health:</b>	<b>3</b>	<b>Flammability:</b>	<b>2</b>	<b>Physical:</b>	<b>2</b>	<b>PPE:</b>	Recommended. (H)
<b>Uniform Fire Code (NFPA 400)</b>	Organic Peroxide: Class IV, Liquid							

<b>California Prop 65</b>	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.
<b>FIFRA</b>	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	
<p>According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations</p> <p>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.</p> <p>For additional information, call us toll-free at 1.888.273.3088 or visit <a href="http://www.biosafesystems.com">www.biosafesystems.com</a></p> <p>© 2021 BioSafe Systems, LLC.</p>	