


# SAFETY DATA SHEET (SDS)

## SaniDate® All Purpose Disinfectant

Form #:	SDS-051
Revision Date:	04/09/2019
Revision #:	03
Supersedes Date:	11/30/2018

Section 1: Identification			
<b>Product Name:</b>	SaniDate® All Purpose Disinfectant	<b>Product Type / Description:</b>	Antimicrobial / Disinfectant
<b>Recommended Use:</b>	Antimicrobial / Disinfectant	<b>Other Means of Identification:</b>	Aqueous solution of hydrogen peroxide and peracetic acid
<b>Use Restrictions:</b>	It is a violation of federal law to use this product in a manner inconsistent with its labeling.	<b>Chemical Formula:</b>	CH <sub>3</sub> CO <sub>3</sub> H
<b>Manufacturer:</b>	<b>BioSafe Systems, LLC</b> 22 Meadow Street   East Hartford, CT 06108	<b>EPA Registration #:</b>	70299-27
<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>	
Acute Toxicity Oral: Category 4 Dermal: Category 5 Skin Corrosion/Irritation: Category 3 Serious Eye Damage/Eye Irritation: Category 1		H302: Harmful if swallowed. H313: May be harmful in contact with skin. H316: Causes mild skin irritation. H318: Causes serious eye damage.	
<b>Pictograms</b>		<b>Signal Word</b>	
		<b>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.		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 P332+P313: If skin irritation occurs: Get medical advice/attention	
<b>Prevention</b>		<b>Storage / Disposal</b>	
P264: Wash thoroughly after handling. P280: Wear protective gloves, clothing, eye protection, face protection.		P402 + P404: Store in a dry place. Store in a closed container.  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)
Hydrogen Peroxide	7722-84-1	4.40 – 6.67%
Peroxyacetic Acid	79-21-0	1.02 – 1.70%
Acetic Acid	64-19-7	13.78 – 15.23%

Section 4: First-Aid Measures	
<b>Eye Contact:</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. 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>Ingestion:</b>	Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
<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 poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1.800.222.1222 for emergency treatment information.
<b>Notes to Physician:</b>	Probable mucosal damage may contraindicate the use of gastric lavage.

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### Section 5: Fire-Fighting Measures

<b>Suitable Extinguishing Media:</b>	Water spray, dry chemical, alcohol foam, or carbon dioxide.
<b>Unsuitable Extinguishing Media:</b>	None.
<b>Combustion Products:</b>	Carbon Oxides.
<b>Unusual Fire and Explosion Hazards:</b>	Product is not flammable but during a fire, product can decompose and generate oxygen which can initiate or promote combustion.
<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. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes.
<b>Emergency Procedures:</b>	Keep away materials that are incompatible with this product. All receiving equipment should be clean, dry, vented, labeled and made of materials compatible with the product.
<b>Environmental Precautions:</b>	Prevent spill from entering waterways.
<b>Methods and Material for Containment and Clean-Up:</b>	Do not return spilled or contaminated material to inventory. Rinse small amounts to drain, when possible. Clean the area with water.

### Section 7: Handling and Storage

<b>Handling:</b>	Wear protective gloves/eye protection. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.
<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.
<b>Compatible Materials:</b>	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 <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 stations / emergency showers should be available in the immediate vicinity of any potential exposure.
<b>General Hygienic Practices:</b>	Do not eat, drink or smoke during use. Wash hands immediately after handling the product.
Personal Protective Equipment	
<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. Recommended respirators are those with an organic vapor / acid gas cartridge.
<b>Eye / Face Protection:</b>	Chemical resistant goggles or face shield if splashes are expected to occur.
<b>Hand Protection:</b>	Rubber/latex/neoprene or other suitable chemical resistant gloves. Do not use leather or cotton gloves.
<b>Skin / Body Protection:</b>	Wear non-combustible clothing and footwear (PVC, neoprene, nitrile or natural rubber).

### Section 9: Physical and Chemical Properties

<b>Appearance:</b>	Clear, colorless liquid.	<b>Odor:</b>	Slight vinegar.	<b>Odor Threshold:</b>	NA
<b>Physical State:</b>	Liquid.	<b>pH:</b>	<1.5	<b>Specific Gravity:</b>	1.04 g/cm <sup>3</sup>
<b>Melting Point:</b>	NA	<b>Freezing Point:</b>	-30°C (-22°F)	<b>Boiling Point:</b>	NA
<b>Flash Point:</b>	NA	<b>Flammability:</b>	NA	<b>Flammability Limits:</b>	NA
<b>Vapor Pressure:</b>	22 mm Hg (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>	NA

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Section 10: Stability and Reactivity	
<b>Reactivity:</b>	Non-reactive under recommended storage conditions.
<b>Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to Avoid:</b>	Open flames, elevated temperatures, heat sources, direct sunlight. Combustible materials.
<b>Incompatible Materials:</b>	Acids / Bases / Reducing Agents / Organic Materials / Metals / Salts of Metals.
<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>	>2000 mg/kg	<b>Dermal LD50 Rat:</b>	>5000 mg/kg
		<b>Inhalation LC50 Rat:</b>	NA
Symptoms and Effects			
Condition	Acute Effects	Chronic (Delayed) Effects	
<b>Eye Contact:</b>	Causes serious eye damage.	None.	
<b>Skin Contact:</b>	May cause irritation.	None.	
<b>Inhalation:</b>	May cause respiratory tract irritation.	None.	
<b>Ingestion:</b>	Harmful if swallowed.	None.	

Section 12: Ecological Information			
Ecotoxicity:	Duration	Species	Value
	48 hr LC50	<i>Oncorhynchus mykiss</i> (rainbow trout)	40 mg/L
	48 hr EC50	Crustaceans	126.8 mg/L
	5 min EC100	<i>Pseudomonas aeruginosa</i>	5 mg/L
<b>Persistence and Degradability:</b>	Weak persistence of degradation products.		
<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 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	NA	Not regulated.	NA	NA	Permitted for shipment by air.	No
TDG	NA	Not regulated.	NA	NA		
IMDG	NA	Not regulated.	NA	NA		
<b>Special Precautions:</b>		Vented container.				
<b>Shipping Placards:</b>		NA				

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.

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

<b>NFPA 704 Rating</b>	<b>Health:</b>	<b>2</b>	<b>Flammability:</b>	<b>0</b>	<b>Reactivity:</b>	<b>0</b>	<b>Special:</b>	None.
<b>HMIS Rating</b>	<b>Health:</b>	<b>2</b>	<b>Flammability:</b>	<b>0</b>	<b>Physical:</b>	<b>0</b>	<b>PPE:</b>	Recommended.
<b>Uniform Fire Code (NFPA 400)</b>	NA							
<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 (EPA). 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

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