Safety Data Sheet
SaniDate®5.0

Revision Date: 3/2015
Supersedes: 12/2014

Section 1: Identification

Product Name: SaniDate 5.0	**Product Type/Description:** Sanitizer/Disinfectant
Recommended Use/ Use Restrictions: Sanitizer - Disinfectant/ For Commercial Use/ It is a violation of federal law to use this product in a manner inconsistent with its labeling	**Other Means of Identification** Peracetic Acid, Peroxyacetic Acid, PAA **EPA Registration Number:** 70299-19
Manufacturer: BioSafe Systems LLC 22 Meadow Street, East Hartford, CT 06108 **Telephone Number:** (888-273-3088)	**Emergency Number:** 800-424-9300 (CHEMTREC)

Section 2: Hazard Identification

GHS Classification: (As Concentrate)
Oxidizing Liquid: Category 2
Organic Peroxide: Type F
Corrosive to Metals: Category 1
Acute Toxicity (oral, dermal and inhalation): Category 4
Skin Corrosion: Category 1
Serious Eye Damage: Category 1

Hazard Statements: (As Concentrate)
H272: May intensify fire; oxidizer
H242: Heating may cause fire
H290: May be corrosive to metals
H302: Harmful if swallowed
H332: Harmful if inhaled
H313: Causes severe skin burns and eye damage
H335: May cause respiratory irritation

Pictograms:

Signal Word: DANGER

Precautionary Statements:

General:
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.

Prevention:
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
P271: Use only outdoors or in a well-ventilated area

Response:
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: Remove 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

Storage:
P405: Store locked up
P410: Protect from sunlight
P411: Store at temperatures not exceeding 55°C (131°F)
P406: Store in corrosive resistant container, never use metal containers
P420: Store away from Incompatible materials

Disposal
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Other Information:
NFPA Rating: Health – 2 Flammability – 0 Reactivity – 3 Special –OXY
HMIS Rating: Health – 2 Flammability - 0 Reactivity – 2 PPE – Required

Section 3: Composition/Information on Ingredients

Components:	Identifiers:	% Concentration by Weight:
Hydrogen Peroxide	7722-84-1	23.0%
Peroxyacetic Acid	79-21-0	5.3%
Acetic Acid	64-19-7	10%

Section 4: First-aid Measures	
Eye Contact:	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.
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. Have person sip a glass of water if able to swallow. 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 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call poison control center or doctor for treatment advice.
Note to Physician:	Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5: Fire-fighting Measures	
Suitable Extinguishing Media:	Product is not flammable and can be quickly diluted with clean water. Oxidizing Agent may cause spontaneous ignition with oxidizing agents
Unsuitable Extinguishing Media:	None Known
Combustion Products:	Carbon Oxides
Unusual Fire and Explosion Hazards:	Product (concentrate) can decompose and will release oxygen thereby adding to the fire hazard
Protective Equipment for Firefighters:	Use PPE equipment

Section 6: Accidental Release Measures	
Personal Precautions:	Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes
Emergency Procedures	Ensure clean-up is conducted by trained personnel. Personnel should wear protective equipment outlined in Sections 7 & 8. If facing concentrations above exposure limits personnel shall wear certified respirators
Environmental Precautions	Prevent spill from entering waterways
Methods and Material for Containment and Cleaning up	Cleanup: 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. Unused product (concentrate) is classified as a (D002) by RCRA criteria.

Section 7: Handling and Storage	
Handling:	Wear protective gloves/eye protection/face 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:	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
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**
Acetic Acid		TWA 10 ppm	TWA: 25 mg/m³- 8 hours. TWA: 10 ppm- 8 hours.	TWA: 25 mg/m³- 8 hours. TWA: 10 ppm- 8 hours.
Hydrogen Peroxide		TWA 1 ppm	TWA: 1.4 mg/m³- 8 hours. TWA: 1 ppm- 8 hours.	TWA: 1.4 mg/m³- 8 hours. TWA: 1 ppm- 8 hours.
Engineering Controls		Effective exhaust ventilation system		
Personal Protection Equipment	**Respiratory**	NIOSH approved full-face respirator for excessive conditions		
	Eye/Face Protection	- chemical proof goggles/face shield for splash risk		
	Hands	Hand gloves for handling concentrate = butyl rubber		
	Skin/Body	coveralls when handling concentrate		
	General Hygienic Practices	Do not eat, drink, or smoke when using this product. Wash thoroughly after handling Avoid breathing fumes/mist/vapors. Remove and wash contaminated clothing before reuse		

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Section 9: Physical and Chemical Properties		
Appearance: Clear, colorless liquid	**Odor:** Pungent	**pH:** 1.56
Melting Point: no data available	**Freezing Point:** -30°C (-22°F)	**Boiling Point:** N/A; product decomposes
Flash Point: no data available	**Flammability:** non flammable	**Flammable Limits:** no data available
Vapor Pressure: no data available	**Specific Gravity:** 1.11 g/cm^3 (9.29 lbs/gal) at 24˚C	**Solubility (ies):** Complete
Partition Coefficient n- octanol/water: no data available	**Auto-ignition Temperature:** no data available	**Decomposition Temperature:** self-accelerating decomposition temperature > 55°C

Section 10: Stability and Reactivity	
Stability:	Stable under normal conditions, with slow oxygen release
Conditions to Avoid	Heat / Direct Sunlight /water/moisture, contact with combustible materials
Incompatible materials	Acids / Bases / Reducing Agents Organic Materials / Metals / Salts of Metals
Hazardous Decomposition Products	N/A

Section 11: Toxicological Information		
Acute Toxicological Data:	**Oral:** LD50 rat 330 mg/kg (7% solution)	**Dermal:**LD50 rabbit, 1410 mg/kg (10% solution)
Inhalation: LD50 4 h., rat 4080 mg/kg (5% solution)	**Skin irritation:** >0.12% solution, irritating effect	**Eye irritation:** rabbit, severely irritating
Likely Routes of Exposure: Inhalation, eye contact, skin contact		
Symptoms and effects:	**Acute Effects**	
Eye Contact	Causes serious eye damage	
Skin Contact	Causes severe skin burns	
Inhalation	May cause respiratory track irritation	
Ingestion	Harmful if swallowed	
Chronic exposure:	Dermal and inhalation – irritating effects	

Section 12: Ecological Information	
Ecotoxicity	Toxic to simple celled aquatic organisms. Danger to the environment limited; due to product properties
Persistence and degradability	Weak persistence of degradation products
Bioaccumulation potential	No bioaccumulation
Mobility is Soil	Non-significant adsorption Soil degradation = 99% in 20 minutes
Other adverse effects	N/A

Section 13: Disposal Considerations	
Waste From Residues and Unused Product	Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.
Contaminated Container Disposal	Do not reuse or refill this container. Triple Rinse empty containers with clean water. Clean and empty containers are to be recycled or placed in the trash.

Section 14: Transport Information						
	UN Number	**UN Proper Shipping Name**	**Hazard Class (Subsidiary)**	**Label (Subsidiary)**	**Packing Group**	**Marine Pollutant**
US DOT	3109	Organic Peroxide type F, liquid Peroxyacetic acid or peracetic acid (with not more than 26% hydrogen peroxide	5.2(8)	Organic Peroxide (Corrosive)	II	NO
CA TDG	3109	Organic Peroxide type F, liquid Peroxyacetic acid or peracetic acid (with not more than 26% hydrogen peroxide	5.2(8)	Organic Peroxide (Corrosive)	II	NO
Special Precautions: Shipping Container: UN Certified vented polyethylene						

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Section 15: Regulatory Information			
TSCA Inventory List: Yes	**US EPA CERCLA Hazardous Substances**: Acetic Acid 5000 lbs		
SARA Title III Section 302/303 Extremely Hazardous Substance: Peroxyacetic acid	**EHS RQ:** Peroxyacetic Acid 500 lbs	**TPQ:** Peroxyacetic Acid 500 lbs	
SARA Title III Sec. 311/312: Peroxyacetic acid	**Hazard category:** Acute Health Hazard Reactivity Hazard, Fire Hazard		
US. EPA EPCRA Section 313 listed: Peroxyacetic acid	**Threshold quantity (processed or manufactured):** 10,000 lbs	**Threshold quantity (otherwise used):** 25,0000 lbs	
Canadian WHIMIS Classification	C – Oxidizing E – Corrosive F – Dangerously Reactive		
California Prop 65	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.		
EPA	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 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

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For additional information on SaniDate 5.0, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com.

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