

SaniDate® 12.0

| Form #: | SDS-015 |
|------------------|------------|
| Revision Date: | 05/07/2019 |
| Revision #: | 06 |
| Supersedes Date: | 06/14/2018 |

| Section 1: Identification | | | | |
|---|--|-----------------------------------|--|--|
| Product Name: | SaniDate® 12.0 | Product Type / Description: | Fungicide / Bactericide / Microbiocide | |
| Recommended Use: | Sanitizer / Disinfectant for commercial use | Other Means of Identification: | Peracetic Acid Solution, Peroxyacetic Acid Solution, PAA | |
| Use Restrictions: | It is a violation of federal law to use this product in a manner inconsistent with its labeling. | Chemical Formula: | CH₃CO₃H | |
| Manufacturer: BioSafe Systems, LLC 22 Meadow Street East Hartford, CT 06108 | | EPA Registration #: | 70299-18 | |
| Telephone Number: | 1-888-273-3088 | Emergency N | umber: 1-800-424-9300 (CHEMTREC) | |

| Section 2: Hazard Identification | | |
|---|--|------------------|
| GHS Classification | H | azard Statements |
| Organic Peroxide: Type F | H242: Heating may cause fire. | |
| Corrosive to Metals: Category 1 | H290: May be corrosive to meta | ıls. |
| Acute Toxicity | H302: Harmful if swallowed. | |
| Oral: Category 4 | H313: Causes severe skin burns and eye damage. | |
| Dermal: Category 4 | H332: Harmful if inhaled. | |
| Inhalation: Category 4 | H335: May cause respiratory irri | itation. |
| Skin Corrosion/Irritation: Category 1A | H411: Harmful to aquatic life. | |
| Serious Eye Damage/Eye Irritation: Category 1 | | |
| Specific Target Organ Toxicity (Single Exposure): Category 3 | | |
| Hazardous to the Aquatic Environment – Acute Hazard: Category 3 | | |
| Pictograms | | Signal Word |







DANGER

| 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. |
|--|
| P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated |
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| 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. |
| Storage / Disposal |
| P403+P235: Store in a well-ventilated place. Keep cool. |
| P404: Store in a closed container. |
| 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 | 16.65 – 20.35% | |
| Peroxyacetic Acid | 79-21-0 | 10.8 – 13.2% | |
| Acetic Acid | 64-19-7 | 18.0 – 22.0% | |

| Section 4: First-Aid Measures | | |
|-------------------------------|---|--|
| Eye | 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 Extinguishing Media: Carbon dioxide, alcohol foam, dry chemical. Heavy water stream can spread fire. | | Carbon dioxide, alcohol foam, dry chemical. Heavy water stream can spread fire. | |
| Combustion Products: Corrosive vapors, acetic acid, carbon oxides. | | | |
| Unusual Fire and Explosion Product is not flammable but during a fire, product can decompose and generate oxygen which can initiate or | | Product is not flammable but during a fire, product can decompose and generate oxygen which can initiate or | |
| Hazards: promote combustion. | | 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 unnecessary personnel. Keep upwind. Use large quantities of water spray to fight fire. Cool containers / tanks with water spray. If | | |
| | Firefighters: | Firefighters: 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. | | Ensure adequate ventilation. Avoid inhalation, ingestion and contact with skin and eyes. |
| Emergency Proce | 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 lim | | all sources of ignition. Keep people away from and upwind of spill/leak. If facing concentrations above exposure limits |
| personnel shall wear certified respirators. | | 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 | d discharged material for proper disposal. Do not seal waste material, do not use textiles, tissues, saw dust or combustible | |
| Clean-Up: | Clean-Up: 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 | | | |
|--|---|--|--|
| Handling: | dling: 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. | | |
| Incompatible Materials: Oxidizing agents, strong reducing agents, combustible materials, heavy metals. | | | |
| Compatib | 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/m³ - 8 hours. TWA: 1 ppm - 8 hours. IDLH: 75 ppm | TWA: 1.4 mg/m³ - 8 hours. TWA: 1 ppm - 8 hours. | |
| Peracetic Acid | STEL: 0.4 ppm | | | |



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| 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 | | Specific Gravity: | 1.11 – 1.13 g/cm ³ | | |
| Melting Point: | NA | Freezing Point: | -30°C (-22°F) | | Boiling Point: | NA | | |
| Flash Point: | NA | Flammability: | NA | | NA | | Flammability Limits: | NA |
| Vapor Pressure: | 22 mm Hg (30°C) | Vapor Density: | NA | | Solubility: | Complete. | | |
| Evaporation | NA | Auto-Ignition NA | | NA | | SADT > 55°C (131°F) | | |
| Rate: | NA | Temperature: | INA | | Temperature: | 3ADT > 33 C (131 F) | | |
| Relative Density: | NA | Partition Coeffic | cient 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 combustion. | | | | |

| Section 11: Toxicological Information | | | | | | | | |
|---------------------------------------|--------------------------|---------------------|------------------|----------------------|------------------------------|--|--|--|
| Acute Toxicological Data | | | | | | | | |
| Oral LD50 Rat: | 330 mg/kg (7% solution) | Dermal LD50 Rabbit: | g (10% solution) | Inhalation LC50 Rat: | 1 hr – 590 mg/m ³ | | | |
| | Symptoms and Effects | | | | | | | |
| Condition | Condition Acute Effects | | | | Chronic (Delayed) Effects | | | |
| Eye Contact | Causes serious eye dama | age. | | None. | | | | |
| Skin Contact | Causes severe skin burns | S. | | None. | | | | |
| Inhalation | May cause respiratory to | ract irritation. | None. | | | | | |
| Ingestion | Probable mucosal dama | ge. | None. | | | | | |

| Section 12: Ecological Information | | | | | | | | |
|------------------------------------|-------------------|----------------|---|--|--|--|--|--|
| Duration | | n | Species | Value | | | | |
| | 96 hr LC50 | | Salmo gairdneri | 13 mg/L (NOEC <10 mg/L) | | | | |
| Ecotoxicity: | 96 hr LC5 | 50 | Pleuronectes platessa | 89.1 mg/L (NOEC 56 mg/L) (12% solution) | | | | |
| Ecotoxicity. | 48 hr EC5 | 50 | Daphnia magna | 3.3 mg/L (NOEC 1 mg/L) | | | | |
| | 96 hr EC5 | 50 | Crangon crangon | 126.8 mg/L (NOEC 56 mg/L) (12% solution) | | | | |
| 5 min EC100 | | | Pseudomonas aeruginosa | 5 mg/L | | | | |
| Persistence | Abiotic degrada | tion: Air - ca | - can be degraded by abiotic (e.g. chemical or photolytic) processes; Water, t 1/2 (Hydrolysis) ca. 120 h | | | | | |
| and | Chemical degra | dation; Soil, | Soil, 99 %, < 0.5 h (1 % solution) Chemical degradation. Biodegradation: Aerobic – non-biodegradable closed | | | | | |
| Degradability: | bottle, readily b | iodegradab | ole 2 mg/L, > 70 %, 28 d; anaerobic- no data available, Effects on waste water treatment plants inhibitory | | | | | |
| | action at 90 mg | /L, BOD incr | rease of treated effluent by acetic acid formation. | | | | | |
| Bioaccumul | ative Potential: | Does not l | s not bioaccumulate. | | | | | |
| I | Mobility in Soil: | Non-signif | on-significant adsorption soil degradation, >99% in 20 minutes. | | | | | |
| Results | of PBT & vPvB: | This mixtu | nis mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). | | | | | |
| Other A | Adverse Effects: | None know | wn. | | | | | |

| 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. | | | | | |



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| Section 14: Transport Information | | | | | | | | | |
|-----------------------------------|------|---|------------------------------|------------------|---------------|---------------------|--|--|--|
| UN Number | | UN Proper Shipping Name | Hazard Class (Subsidiary) | Packing Group | IATA | Marine Pollutant | | | |
| DOT | 3109 | Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, Stabilized, <43%) | 5.2 (8) | NA | Not permitted | Tollatant | | | |
| TDG | 3109 | Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, Stabilized, <43%) | 5.2 (8) | NA | for shipment | | | | |
| IMDG | 3109 | Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, Stabilized, <43%) | 5.2 (8) | | by air. | No | | | |

Special Precautions: Shippin

Shipping container: UN certified vented polyethylene

Shipping Placards:





| | | | | | Section 15 | : Regulat | tory Inform | ation | | | | | |
|-----------------------|------------|---------|---|----------|---|-----------|-------------|----------|-----------|------------------------------|-----------------|--|--|
| TSC | CA Invento | ry List | | | US EPA CERCLA Hazardous Substances | | | | | Т | Clean Water Act | | |
| Acetic Acid Yes | | | | | | Ad | cetic Acid | 5000 | lbs. | 5 | 5000 lbs. | | |
| Hydrogen Peroxide Yes | | | | | | | | | NA | | | | |
| Pera | cetic Acid | | Yes | | , , | | | | | IA | | | |
| | | | | | | SARA Ti | itle III | | | | | | |
| | Sec. 302 | TPQ. | Sec 30 | 4 RQ. | Sec 311 / Sec 312 Hazard Category | | | | Sec 313 | Clean Air Act Threshold Qty. | | | |
| Acetic Acid | NA | | N. | A | NA | | | | | NA | NA | | |
| Hydrogen | 1000 l | bs. | 1000 | lbs.* | Physical: Oxidizer | | | | | | NA | NA | |
| Peroxide | | | | | Health: Acute Toxicity; Skin Corrosion or Irritation; Serious | | | | | Serious | | | |
| | | | | | Eye Damage or Eye Irritation; Specific target organ toxicity | | | | | toxicity | | | |
| Peracetic | 500 lk | S. | 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 Pei | roxide Rep | ortable | 2 Quantity | only ap | plies to concentration | ons > 52% | 6 | | | | | | |
| NF | PA 704 Ra | ting | Health: | 3 | Flammability: | 1 | Reactivit | y: | 2 | Special: | OX (Oxi | dizer) | |
| | HMIS Ra | ting | Health: | 3 | Flammability: | 1 | Physica | al: | 2 | PPE: | Recomi | mended. (B) | |
| Unifo | rm Fire Co | de (NF | PA 400) | Organi | c Peroxide: Class IV, | Liquid | | | | | | | |
| California Pro | וח הי | | | | ain any substances l | known to | the state o | f Calif | fornia to | cause ca | ncer, deve | lopmental and/or | |
| | | | tive harm | | | | .1 | <u> </u> | | | | | |
| | I Th | is prod | uct is a re | gistered | sanıtizer / disinfect | ant with | the United | States | s Enviro | nmental F | rotection | Agency and is subject to EPA | |
| | | • | | | | | | | | /=!=D | • \! | | |
| | lal | eling r | • | | | | - | | | - | • | requirements may differ from larmonized Systems (GHS), | |

Section 16: Other Information

with its labeling. Always refer to product label for further precautionary information and use directions.

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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