



SaniDate® 5.0 Product Information

SaniDate 5.0 is an EPA-registered, peroxyacetic acid-based sanitizer and disinfectant for use in food processing facilities, poultry houses, hatcheries, livestock quarters and in poultry and livestock water lines.

When used as directed, SaniDate 5.0 will control avian influenza, distemper, mold, yeast, MRSA, E.coli, Salmonella and many other human health pathogens and odor-causing microorganisms.

Contact BioSafe Systems for a complete specimen or container label.

ACTIVE INGREDIENTS:

Hydrogen Peroxide.....23.00%

Peroxyacetic Acid.....5.30%

OTHER INGREDIENTS:.....71.70%

TOTAL:.....100.00%

SANITIZATION OF FOOD CONTACT SURFACES

SaniDate 5.0 is effective sanitizer against *Escherichia coli*, *Staphylococcus aureus* and *Escherichia coli* O157:H7. Also effective against beverage spoilage organisms *Pediococcus damnosus*, *Lactobacillus malefermentans*, and *Saccharomyces cerevisiae*. SaniDate 5.0 is for use in circulation cleaning and institutional/industrial sanitizing of pre-cleaned, hard, non-porous food contact surfaces and equipment.

Use as a sanitizer on hard, non-porous surfaces as tanks, vats, piping systems, pipelines, beverage dispensing equipment, evaporators, filters, pumps, evaporators, clean-in-place systems, pasteurizers and aseptic equipment used in dairies, breweries, wineries, beverage and food processing plants, conveyors, boxing or packing equipment, peelers, corers, de-boners, scrapers, collators, slices, dicers, knives, saws, non-wooden cutting boards, tabletops, trays, pans, racks, platters, and cans.

CLEAN EQUIPMENT IMMEDIATELY AFTER USE

1. Remove all products from equipment unless treating only the return portion of a conveyor.
2. Remove gross food particulate matter and soil by a warm water flush, or pre-flush, or a pre-scrape and, when necessary, pre-soak treatment.
3. Thoroughly wash surfaces or equipment with a good detergent or compatible cleaning solution. Do not rinse.
4. Add 1.6 fl. oz. SaniDate 5.0 to 5 gallons of potable water (146 ppm of active peroxyacetic acid), and apply by wiping, mopping, or coarse spray, or by adding to closed system.
5. If applicable, fill closed systems with diluted sanitizer solution at a temperature of 5°C (41°F) to 40°C (104°F).
6. Allow a contact time of one (1) minute.
7. Allow items and/or surfaces to drain thoroughly before resuming operation. Do not rinse.

FOGGING INSTRUCTIONS

SaniDate 5.0 can be used as an adjunct to acceptable manual cleaning and sanitizing to treat hard, non-porous room surfaces.

1. Prior to fogging, remove or carefully protect all food product and packaging materials.
2. Prior to use of this product, remove gross contamination with a cleaner or other suitable detergent and rinse with potable water.
3. Ensure room is properly ventilated. Vacate all personnel from the room during fogging and for a minimum of 1 hour after fogging, to ensure that there is no strong odor, which is characteristic of acetic acid, before having personnel return to work area.
4. Fog desired areas using 1 quart per 1,000 feet of room area with a solution of 1.6 fl. oz. SaniDate 5.0 to 5 gallons of potable water (146 ppm of active peroxyacetic acid).
5. Allow surfaces to drain thoroughly before operations are resumed.

SANITIZATION OF NON-FOOD CONTACT SURFACES

SaniDate 5.0 is an effective inanimate, non-food contact, hard surface sanitizer against fungus, mold, and bacteria - *Staphylococcus aureus* and *Klebsiella pneumoniae*. Use as a sanitizer on hard, non-porous surfaces such as floors, walkways, walls, tables, chairs, benches, garbage cans/bins, cabinets, bathroom fixtures, shelves, carts, refrigerator exteriors, cooler exteriors, tractor trailers, trucks, cabs, trailers, vehicles, conveyors, fan blades, drains, piping, commercial, municipal, and process water transfer and handling systems, filter housings, vats, tanks, pumps, valves and systems.

SaniDate 5.0 is an effective sanitizer for hard, non-porous personal equipment such as boots, gloves, hard hats, raingear, tools and equipment including but not exclusive to buckets, pails, scrapers, squeegees, brooms, mops, shovels, rakes, hooks, wrenches, and screwdrivers.

SaniDate 5.0 is effective on the use sites listed which are manufactured from the following materials; linoleum, formica, vinyl, glazed porcelain, plastic, sealed fiberglass, polyethylene, CPVC, PVC, nylon, aluminum, steel, stainless steel, sealed wood, glazed tile, and glass.

1. Prior to use of this product, remove gross contamination with a cleaner or other suitable detergent and rinse with potable water.
2. Add 1.6 fl. oz. SaniDate 5.0 to 5 gallons of potable water (146 ppm of active peroxyacetic acid). Soak items in/with diluted solution using mop/wipe, coarse spray or flood techniques.
3. Allow contact for at least (1) one minute.
4. Allow items and/or surfaces to air dry. No potable water rinse is required.

FOGGING INSTRUCTIONS

SaniDate 5.0 can be used as an adjunct to acceptable manual cleaning and sanitizing to treat hard, non-porous room surfaces.

1. Prior to fogging, remove or carefully protect all food product and packaging materials.
2. Prior to use of this product, remove gross contamination with a cleaner or other suitable detergent and rinse with potable water.
3. Ensure room is properly ventilated. Vacate all personnel from the room during fogging and for a minimum of 1 hour after fogging, to ensure that there is no strong odor, which is characteristic of acetic acid, before having personnel return to work area.
4. Fog desired areas using 1 quart per 1,000 feet of room area with a solution of 1.6 fl. oz. SaniDate 5.0 to 5 gallons of potable water (146 ppm of active peroxyacetic acid).
5. Allow surfaces to drain thoroughly before operations are resumed.

TRACTOR TRAILER SANITIZATION

SaniDate 5.0 may be used to sanitize and deodorize vehicles such as trucks, trailers, cabs, (including truck body parts and tires, mats, wheels). Use SaniDate 5.0 to prevent the cross contamination of bacteria, odor-causing fungus and mold between loads.

1. Before sanitization, move the vehicle into an area with an impervious surface and with controlled drainage. Ensure that no sanitization solution will be released into the environment.
2. Remove gross contamination with high pressure water and cleaner or other suitable detergent and rinse with water.
3. Apply SaniDate 5.0 using a coarse spray device at a rate of 1.6 fl. oz. to 5 gallons of potable water (146 ppm of active peroxyacetic acid).
4. Allow sanitizer to contact surface for at least one (1) minute.

Allow equipment to drain dry before using. Do not rinse.

SANITIZING CONVEYORS FOR MEAT, POULTRY, SEAFOOD, FRUITS, AND VEGETABLES

1. Remove all products from equipment.
2. Prepare solution by adding 1.6 fl. oz. SaniDate 5.0 to 5 gallons of potable water.
3. Apply sanitizer solution to the return portion of the conveyor or to the equipment using a coarse spray or other means of wetting the surfaces for a minimum of 60 seconds contact time. Control the volume of solution so as to permit maximum drainage and to prevent puddles.
4. Allow equipment to drain dry before using. Do not rinse.

SURFACE DISINFECTION

Use SaniDate 5.0 as a disinfectant at a rate of 0.5 fl. oz. in 1 gallon of water (227 ppm of active peroxyacetic acid). Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device or by soaking so as to wet all surfaces thoroughly. Treated surfaces must remain wet for ten (10) minutes.

FOGGING INSTRUCTIONS

SaniDate 5.0 can be used as an adjunct to acceptable manual cleaning and disinfecting to treat hard, non-porous surfaces.

1. Remove gross filth from surfaces to be treated.
2. Prior to fogging, remove or carefully protect all food product and packaging materials.
3. Ensure room is properly ventilated. Vacate all personnel from the room during fogging and for a minimum of 1 hour after fogging, to ensure that there is no strong odor, which is characteristic of acetic acid, before having personnel return to work area.
4. Fog desired areas using 1 quart per 1,000 feet of room area with a solution of 1 fl. oz. of SaniDate 5.0 per gallon of potable water (0.25 fl. oz. per quart of potable water) or a dilution rate of 1:125 (457 ppm of active peroxyacetic acid).
5. Allow surfaces to drain thoroughly before operations are resumed.

SANIDATE 5.0 IS AN EFFECTIVE DISINFECTANT AGAINST THE FOLLOWING BACTERIA AND FUNGI:

Aspergillus fumigatus

Pseudomonas aeruginosa

Staphylococcus aureus

Enterobacter aerogenes

Bacteroides melaninogenica

Salmonella enterica

Klebsiella pneumoniae

Listeria monocytogenes

Streptococcus agalactiae

Bordetella bronchiseptica

Streptococcus uberis

Fusobacterium necrophorum

Streptococcus dysgalactiae

Trichophyton mentagrophytes

Methicillin-resistant Staphylococcus aureus (MRSA)

SANIDATE 5.0 IS EFFECTIVE AGAINST THE FOLLOWING FOOD AND BEVERAGE SPOILAGE ORGANISMS:

Pediococcus damnosus

Saccharomyces cerevisiae

Lactobacillus malefermentans

VIRICIDAL

When used at the disinfectant rate of 0.5 fl. oz. per gallon of water, SaniDate 5.0 is an effective viricide against:

Human Influenza Virus (H1N1)

Canine Distemper Virus

Avian Influenza Virus (H9N2)

This product may be used to clean, disinfect and deodorize inanimate hard surfaces in general commercial environments:

- Hospitals, doctor's offices, dental offices, housekeeping services, physical therapy departments, nursing services, autopsy facilities, nursing homes, other healthcare facilities
- Schools, colleges, industrial facilities, dietary areas, office buildings, recreational facilities, health clubs, gyms, spas, retail and wholesale establishments
- Animal hospitals, veterinary clinics, animal life science laboratories, kennels, kennel runs, catteries, cages, feeding and watering equipment, pet shops, zoos, pet animal quarters, poultry premises, trucks, tractor trailers, hatcheries, live stock quarters, stables, stalls, and pens
- Packinghouses, food processing and rendering plants
- Grocery stores, supermarkets, food distribution and storage facilities
- Farms, farm equipment and harvesting equipment
- Commercial floral shops
- Hair salons/barber shops
- Pharmaceutical/cosmetic facilities
- Buses, taxis, trucks, trains, airplanes, public transportation facilities

ANIMAL HEALTH

SaniDate 5.0 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, livestock and dairy quarters. When used as directed, it is specifically designed to disinfect, deodorize and clean inanimate, hard, non-porous surfaces such as walls, floors, sink tops, furniture, operation tables, kennel runs, cages and feeding and watering equipment. In addition it will disinfect bins and cans, and any other hard, non-porous areas that are prone to odors caused by microorganisms.

All treated equipment that will contact feed or drinking water must be rinsed with potable water before reuse.

For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS, CRATES

1. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
2. Empty all troughs, racks and other feeding and watering appliances.
3. Thoroughly clean all surfaces with soap or detergent and rinse with water.
4. Saturate all surfaces with a solution of 0.5 fl. oz. per 1 gallon of water (227 ppm of active peroxyacetic acid) for a period of ten (10) minutes.
5. Immerse all types of equipment used in handling and restraining poultry, as well as forks, shovels and scrapers used for removing litter and manure.
6. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried.
7. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

POULTRY HATCHERY DISINFECTION

1. Clean out any remaining eggs and chicks. Remove all poultry and feeds from premises, trucks, coops and crates.
2. Remove gross soils, such as litter, droppings, down shell fragments or other hatching related debris from floors, walls and surfaces of facilities occupied or traversed by poultry.
3. Empty all troughs, racks and other feeding and watering appliances and equipment.
4. Thoroughly clean all surfaces with soap or detergent and rinse thoroughly with water.
5. Saturate all surfaces with a solution of 0.5 fl. oz. per 1 gallon of water (227 ppm of active peroxyacetic acid) for period of ten (10) minutes.
6. Ventilate buildings, coops, and other closed spaces. Allow to dry before reintroducing eggs or poultry.
7. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

TO FOG POULTRY PREMISES, TRUCKS, COOPS, CRATES

SaniDate 5.0 can be used as an adjunct to acceptable manual cleaning and disinfecting to treat hard, non-porous surfaces.

1. Clean out any remaining eggs and chicks. Remove all poultry and feeds from premises, trucks, coops and crates
2. Remove gross soils, such as litter, droppings, down, shell fragments or other hatching related debris from floors, walls and surfaces of facilities occupied or traversed by poultry.
3. Empty all troughs, racks and other feeding and watering appliances and equipment.
4. Ensure room is properly ventilated. Vacate all personnel from the room during fogging and for a minimum of 1 hour after fogging, to ensure that there is no strong odor, which is characteristic of acetic acid, before having personnel return to work area.
5. Fog desired areas using 1 quart per 1,000 feet of room area with a solution of 1 fl. oz. of SaniDate 5.0 per gallon of potable water (0.25 fl. oz. per quart of potable water) or a dilution rate of 1:125 (457 ppm of active peroxyacetic acid).
6. Ventilate buildings, coops, and other closed spaces for minimum of one hour. Allow surfaces to dry before reintroducing eggs or poultry.
7. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNs, KENNELS, HUTCHES)

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with a solution of 0.5 fl. oz. per 1 gallon of water (227 ppm of active peroxyacetic acid) for a period of ten (10) minutes.
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing litter and manure.
7. Ventilate buildings, cars, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

FOOT BATH MATS, PADS, WALK THROUGH TRAYS

Place foot bath mats, pads or trays at the entrances of all rooms and buildings to prevent cross contamination from area to area in animal containment areas, livestock and dairy quarters, poultry premises, greenhouses, packing houses, food processing and rendering plants.

1. Prior to use of this product, rinse or brush footwear surfaces to remove gross filth.
2. Make a solution using 0.5–1.0 fl. oz. of SaniDate 5.0 per gallon of water (227–457 ppm of active peroxyacetic acid) and add to foot bath mat, pad or tray, filling to capacity.
3. Place boots and shoes in the foot bath mat, pad or tray containing the recommended solution of SaniDate 5.0. Allow surface to remain wet for ten (10) minutes prior to entering next area. Change solution daily or as needed.

For Foaming applications, add 2–4 fl. oz. per gallon of water mixed with foaming solution. Follow foaming directions as specified by the manufacturer of the foam generator/aerator.

CONTROL OF ALGAL AND SLIME-FORMING BACTERIAL GROWTH IN LIVESTOCK WATER

STOCK TANKS AND LIVESTOCK WATER

Use SaniDate 5.0 to suppress/control algae, odor-causing and slime-forming bacteria and sulfides in stock tanks, stock watering ponds, tanks and troughs, and livestock water. Apply 1.2 to 6.0 fluid ounces of SaniDate 5.0 per 250 gallons of water (2–11 ppm of 100% peroxyacetic acid) for algae control. Product can be simply added to the body of water, as the residual control will allow for even distribution throughout the water column. Where existing algae mats are present at time of treatment, the most effective control will be obtained by breaking up mats and/or evenly dispersing diluted SaniDate 5.0 over the algae mats. Apply SaniDate 5.0 as needed to control and prevent algae growth; apply more often in times of higher water temperatures.

Drip system application for livestock watering tanks: Tanks fed by a continuous flow of spring or well water can be equipped with a chemical drip system designed to meter-in SaniDate 5.0 based upon water flow rates. Pre-dilute SaniDate 5.0 at a 265: 1 rate or 4-mL/minute water flow rate. Treat continuously or as needed to control and prevent algae regrowth.

Poultry, swine, livestock water line cleaner when system is not in use.

To remove scale, mineral build up and heavy soils from livestock watering systems use SaniDate 5.0 at 0.42–0.85 fl. oz. per gallon of water. Allow system to run for 6–24 hours depending on the conditions. Following the cleaning process, rinse with potable water to remove the cleaning solution from the watering line, nipples and cups.

POULTRY, SWINE, LIVESTOCK WATERING OPERATING SYSTEMS

After water lines have been cleaned, use SaniDate 5.0 at 0.85–1.27 fl. oz. per 100 gallons of water to control algae and bacteria in drinking water and to control mineral build up in watering lines.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of BIOSAFE SYSTEMS LLC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold BIOSAFE SYSTEMS and Seller harmless for any claims relating to such factors.

BIOSAFE SYSTEMS warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or BIOSAFE SYSTEMS, and Buyer and User assume the risk of any such use. BIOSAFE SYSTEMS MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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