

# SaniDate® 5.0



## Sanitizer/Disinfectant

For the sanitization and disinfection of hard surfaces, poultry and livestock water, cooling pads and eggs.

## Ingredients

Peroxyacetic Acid and Hydrogen Peroxide

## General Sanitation of Hard Surfaces

SaniDate 5.0 is an effective inanimate, hard surface sanitizer against fungus, mold, and bacteria - *Staphylococcus aureus* and *Klebsiella pneumoniae*, *Escherichia coli*, *Staphylococcus aureus* and *Escherichia coli* O157:H7.

## Sanitization of Hard Food and Non-Food Contact Surfaces

1. Pre rinse walls, floors, drains and equipment with potable water.
2. Apply a detergent solution to lift soils from hard surfaces. Hand scrubbing may be necessary to lift some soils into the detergent solution.
3. Rinse away detergent and suspended soils with a potable water rinse.
4. Prepare a SaniDate 5.0 sanitizing solution by adding 1.6 fl. oz. of SaniDate 5.0 to 5 gallons of potable water. This provides 147 ppm peroxyacetic acid.
5. Apply SaniDate 5.0 sanitizing solution to hard surfaces using a coarse spray or flood. For extended dwell time add BioSafe BioFoam or other approved foaming agent to the sanitizing solution and apply foam sanitizer to hard surfaces.
6. Equipment may be immersed in solution.
7. Allow sanitizing solution to contact hard surfaces for a minimum of 1 minute.
8. Allow surfaces and equipment to drain.
9. Do not rinse.

*Sanitizing Fogging Instructions:* SaniDate 5.0 can be used as an adjunct to disinfect hard, non-porous surfaces.

1. Ensure room is properly ventilated.
2. 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 (147 ppm of active peroxyacetic acid).

## For Sanitizing of Casing or Shell Eggs and Hatching Eggs

1. To sanitize clean shell eggs intended for food or food products, spray with a solution of 1.6 fl. oz. of this product with 5 gallons of potable water (147 ppm of active peroxyacetic acid). The solution must be equal to or warmer than the eggs, but not to exceed 130° F.
2. Apply diluted solution as eggs are gathered as a coarse spray or flood.
3. Wet eggs thoroughly and allow to drain.
4. Eggs that have been sanitized with this product may be broken for use in the manufacture of egg products without a prior potable water rinse.
5. Eggs must be reasonably dry before casing or breaking. The sanitizing solution must not be reused for sanitizing eggs.

*For hatching eggs:* Apply the sanitizing solution as eggs are gathered or prior to setting using a coarse spray or flood so as to lightly wet egg shell surfaces. Allow to drain dry.

## Mold and Mildew Control

SaniDate 5.0 may be used to effectively inhibit the growth of mold and mildew and odors caused by them at a rate of 0.5 fl. oz. in 1 gallon of water (230 ppm of active peroxyacetic acid) in general commercial environments.

## Disinfection of Hard Surfaces

SaniDate 5.0 disinfects hard surfaces. This product can be used to disinfect and deodorize floors, walls and other hard, nonporous surfaces.

## Hard Surface Disinfection

1. Pre rinse walls, floors, drains, and equipment with potable water.
2. Apply a detergent solution to lift soils from hard surfaces. Hand scrubbing may be necessary to lift some soils into the detergent solution.
3. Rinse away detergent and suspended soils with a potable water rinse.
4. Prepare a SaniDate 5.0 disinfecting solution by adding 0.5 fl. oz. of SaniDate 5.0 to 1 gallon of potable water. This provides 230 ppm peroxyacetic acid.
5. Apply SaniDate 5.0 disinfecting solution to hard surfaces using a course spray or flood. For extended dwell time add BioSafe BioFoam or other approved foaming agent to the solution and apply foam disinfectant to hard surfaces.
6. Equipment may be immersed in solution.
7. Allow disinfecting solution to contact hard surfaces for a minimum of 10 minutes.
8. Rinse with potable water.

*Disinfecting Fogging Instructions:* SaniDate 5.0 can be used as an adjunct to disinfect hard, non-porous surfaces.

1. Ensure room is properly ventilated.
2. 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 1:128 (460 ppm of active peroxyacetic acid).

### **SaniDate 5.0 is an effective disinfectant against the following bacteria and fungi:**

*Aspergillus fumigatus, Salmonella enterica, Pseudomonas aeruginosa, Klebsiella pneumoniae, Staphylococcus aureus, Listeria monocytogenes, Enterobacter aerogenes, Streptococcus agalactiae, Bacteroides melaninogenica, 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)*

## Animal Health

SaniDate 5.0 is designed for use in poultry houses, hatcheries, animal hospitals, veterinary facilities, livestock and dairy quarters. After cleaning, use at disinfectant rates for flood, foaming and fogging applications.

## 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.

## Stock Tanks and Livestock Water

Use SaniDate 5.0 to suppress and control algae, odor causing and slime-forming bacteria and sulfides in stock tanks, stock watering ponds, tanks and troughs, and livestock water. Apply 1.2–6.0 fl. oz. 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 1:265 rate or 4-mL/minute water flow rate. Treat continuously or as needed to control and prevent algae regrowth. Contact BioSafe Systems for equipment recommendations.

## Poultry and Livestock Water Line Cleaning

SaniDate 5.0 will remove scale, mineral build up, heavy soils and biofilms from watering lines.

1. Dose stock solution into water line at 1:128.
2. Activate drinking nipples and cups.
3. Allow system to circulate or hold solution in the watering system for 12–24 hours.
4. Rinse with potable water.

## Poultry and Livestock Water Operating Systems

Once water lines have been cleaned and flushed with potable water, use SaniDate 5.0 at 0.85–1.27 fl. oz. per 100 gallons of water to prevent mineral deposit, scale and biofilms in water lines and control algae and bacteria in poultry and livestock drinking water.

1. Make a stock solution of 5–8 fl. oz. of SaniDate 5.0 per 5 gallons of water.

2. Dose stock solution into livestock and poultry drinking water line at 1:128.

## Treatment of Cooling Water Systems (Cooling Pads, Towers, Evaporative Condensers)

SaniDate 5.0 will control algae and bacteria in evaporative cooling systems water that reduce water flow cooling efficiencies.

1. Clean pumps and troughs to remove sediment and sludge.
2. Dislodge mineral build up and soils from pads with a soft brush.
3. Flush header pipes, clear clogged holes.
4. Clean or replace the filter.
5. Clean pads with detergent per pad manufacturer recommendations.
6. Fill trough with SaniDate 5.0 solution. Add SaniDate at 4.5–22.5 fl. oz. per 1,000 gallons of water. This will provide 2–9 ppm of peroxyacetic acid. Usage rate depends on water quality and condition of the system.
7. Maintain cooling water 2–9 ppm of peroxyacetic acid to prevent scale and mineral build up and to control algae and bacteria growth.

SaniDate 5.0 Use Concentrations				Active Ingredient Concentration	
Application	Recommended Label Rate(s)	Product Dilution Ratio <sup>d</sup>	% v/v <sup>d</sup>	PPM of Hydrogen Peroxide	PPM of Peroxyacetic Acid
Poultry/Swine/ Livestock  Drinking Water Treatment	0.85 fl. oz. per 100 gallons	1:15,059	0.007%	17.0	4.0
	1.27 fl. oz. per 100 gallons of water	1:10,079	0.01%	25.0	6.0
Poultry/Swine/ Livestock  Water Line Cleaning Treatment <sup>a</sup>	1 fl. oz. per gallon	1:128	0.78%	1,995.0	460.0
	2.56 fl. oz. per gallon	1:50	2.00%	5,106.0	1,177.0

Continue for application rates.

SaniDate 5.0 Use Concentrations				Active Ingredient Concentration	
Application	Recommended Label Rate(s)	Product Dilution Ratio <sup>d</sup>	% v/v <sup>d</sup>	PPM of Hydrogen Peroxide	PPM of Peroxyacetic Acid
<b>Hard Surface Disinfection<sup>b</sup></b>	0.5 fl. oz. per gallon of water	1:256	0.39%	997.0	230.0
<b>Fog Disinfection<sup>c</sup></b>	1.0 fl. oz. per gallon of water	1:128	0.78%	1,995.0	460.0

<sup>a</sup> When system is not in use. Refer to label for additional information.

<sup>b</sup> Poultry Premises, Trucks, Coops, Crates, Poultry Hatchery, Animal Housing Facilities, Foot Bath Mats, Pads, Walk Through Trays. Refer to label for additional information.

<sup>c</sup> Poultry Premises, Trucks, Coops, Crates. Refer to label for additional information.

<sup>d</sup> Some values may have been rounded off to nearest whole number for ease of calculation.

For additional information on SaniDate 5.0,  
call BioSafe Systems at 1.888.273.3088 or visit [www.biosafesystems.com](http://www.biosafesystems.com).

SaniDate® 5.0 is a registered trademark of BioSafe Systems, LLC.

This is an abbreviated document outlining applications specific to meat, poultry, seafood and processed vegetable industries. Refer to the label prior to use.

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