

70299-7

2/21/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

FEB 21 2013



Office of Pesticide Programs

BioSafe Systems  
22 Meadow Street  
East Hartford, CT 06108

Attention: Donna Bishel

**Subject: SaniDate Disinfectant**  
EPA Registration No. 70299-7  
Notification Dated January 24, 2013

This will acknowledge receipt of your notification, submitted under the provisions of FIFRA Section 3(c)(9).

Proposed Notification

Additional Brand Name: "SD Disinfectant"

General Comments

Based on a review of the submitted material, the following comments apply:

The Notification is in compliance with PR Notice 98-10 and is acceptable. This information has been added to your file.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely

A handwritten signature in black ink that reads "Martha Terry" followed by a flourish.

Marshall Swindell  
Product Manager (33)  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 70299-7	2. EPA Product Manager Marshall Swindell	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) SaniDate Disinfectant	PM# 33/Antimicrobial Division	
5. Name and Address of Applicant (Include ZIP Code) BioSafe Systems, LLC 22 Meadow Street East Hartford, CT 06108 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Notification to add alternate brand name. Refer to attached cover letter for details.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or confidential statement of formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PRN Notice 98-10, and 40 CFR 152.46, this product may be in violation of FIFRA and may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container	<input type="checkbox"/> Glass
					<input type="checkbox"/> Paper
					<input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 2.5, 5, 30, 55, 275 gallon		5. Location of Label Directions <input checked="" type="checkbox"/> on container label	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued Stenciled			<input type="checkbox"/> Other _____		

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Donna Bishel / dbishel@biosafesystems.com	Title Technical Director	Telephone No. (Include Area Code) (410) 878-7700
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>
2. Signature 	3. Title Technical Director	
4. Typed Name Donna Bishel / dbishel@biosafesystems.com	5. Date January 24, 2013	

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22 Meadow Street  
East Hartford, CT 06108  
Phone: 860.290.8890  
Fax: 860.290.8802  
E-mail: info@biosafesystems.com  
Web: biosafesystems.com

Marshall Swindell  
Product Manager 33  
Antimicrobial Division (7504P)  
Office of Pesticide Products  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

January 24, 2013

**RE: SaniDate Disinfectant  
EPA Registration No. 70299-7**

**Notification to add alternate brand name**

Dear Mr. Swindell:

Enclosed with this letter you will find the following in support of a notification for the above referenced product:

- 1) Notification form;
- 2) One (1) copy of the revised label with all changes highlighted in redline;
- 3) Three clean copies of the label.

Changes included in this notification are as follows:

- Page 1 of the Master Label: Add the Alternate Brand Name '*SD Disinfectant*'

All of these changes are:

- a. Consistent with PR Notice 98-10 and 40 CFR Part 156; and
- b. Involve no change in the ingredients statement, signal word, use classification, precautionary statements, First Aid, physical/ chemical/ biological properties, storage and disposal, or directions for use advisory and mandatory language.

Please contact me directly if you have any questions or comments.

Sincerely,

Donna Bishel  
Technical Director for BioSafe Systems  
Direct dial (410) 878-7700; email [dbishel@biosafesystems.com](mailto:dbishel@biosafesystems.com)

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# SANIDATE®

## Disinfectant

(Alternate Brand Name: SaniDate Disinfectant/Sanitizer, StorOx 2.0, SD Disinfectant)

- For the disinfection of hard, non-porous surfaces, structures and equipment.
- For the disinfection and sanitation of environmental hard surfaces, structures and equipment.
- For the disinfection and sanitation of non-porous food contact and non-food contact surfaces, equipment and systems.
- For use in post harvest water treatment applications.
- For the disinfection of separation and filtration media, equipment and systems.
- Disinfectant and sanitizer.

### FOR COMMERCIAL USE

#### ACTIVE INGREDIENT:

Hydrogen Peroxide ..... 27.0%

Peroxyacetic Acid ..... 2.0%

OTHER INGREDIENTS: ..... 71.0%

TOTAL: ..... 100.0%

### KEEP OUT OF REACH OF CHILDREN

### DANGER - PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call poison control center or doctor for treatment advice.</li> </ul>
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 medical treatment information.	
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage.	

Sold by: BioSafe Systems, LLC, 22 Meadow Street, East Hartford, CT 06108; (888) 273-3088  
EPA Registration No.: 70299-7

SANIDATE DISINFECTANT; EPA Reg. No. 70299-7

Notification

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EPA Establishment No.: 067441-IL-001; 60156-IL-001  
Net Contents: 2.5, 5, 30, 55, 275 gallon

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CORROSIVE:** Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through the skin. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Do not breathe vapor or spray mist. Wear protective eyewear (goggles, face shield, or safety glasses), protective clothing and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. When spraying or fogging, wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and National Institute for Occupational Safety and Health.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either indirectly or through drift.

SaniDate Disinfectant works best when diluted with water with minimal levels of organic or inorganic materials, and with water having a neutral pH. Thoroughly rinse out tank with water before mixing concentrate. SaniDate Disinfectant will readily mix with clean, neutral water and does not require agitation.

SaniDate Disinfectant concentrate should not be combined or mixed with any other pesticide concentrates.

**APPLICATION DIRECTIONS:**

**GENERAL DISINFECTION**

SaniDate Disinfectant disinfects as it cleans in one operation. SaniDate Disinfectant can be used to disinfect floors, walls and other hard, non-porous surfaces such as tables, chairs, countertops, bathroom fixtures, sinks, shelves, racks, carts, refrigerators, coolers, glazed tile, and use sites listed on this label made of linoleum, vinyl, glazed porcelain, plastic, polyethylene, stainless steel, or glass. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

**SURFACE DISINFECTION**

SaniDate Disinfectant is an effective disinfectant against gram positive and negative bacteria (vegetative forms):

- |                               |                                     |  |
|-------------------------------|-------------------------------------|--|
| <i>Escherichia coli</i>       | <i>Lactobacillus malefermentans</i> |  |
| <i>Pseudomonas aeruginosa</i> | <i>Pediococcus damnosus</i>         |  |
| <i>Salmonella enterica</i>    | <i>Listeria monocytogenes</i>       |  |
| <i>Salmonella enteritidis</i> | <i>Klebsiella pneumoniae</i>        |  |
| <i>Salmonella typhimurium</i> | <i>Enterobacter aerogenes</i>       |  |
| <i>Proteus vulgaris</i>       | <i>Staphylococcus aureus</i>        |  |
| <i>Streptococcus pyogenes</i> | <i>Clavibacter michiganense</i>     |  |

When used at the disinfectant rate, SaniDate Disinfectant is effective against the following fungi:  
*Trichophyton mentagrophytes*                      *Byssoschlamys nivea*

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*Aspergillus fumigatus*  
*Aspergillus versicolor*

*Saccharomyces cerevisiae*

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

- Floors, walls, and other non-porous surfaces such as tables, chairs, counter tops, garbage cans/bins, bathroom fixtures, sinks, bed frames, shelves, racks, carts, refrigerators, coolers, and use sites listed on this label made of linoleum, vinyl, glazed porcelain, plastic (such as polyethylene), stainless steel, or glass.
- Packinghouses
- Schools, colleges, industrial facilities, dietary areas, office buildings, recreational facilities, retail and wholesale establishment.
- Animal hospitals, veterinary clinics, animal life science laboratories, kennels, kennel runs, cages, feeding and watering equipment, pet shops, zoos, pet animal quarters, poultry premises, trucks, hatcheries and live stock quarters.

**(UNCLEANED SURFACES – SURFACE DISINFECTION)** *(Not for use in California)*

Prepare SaniDate Disinfectant solution by adding 2.5 fl. oz. of the product to 1 gallon of potable water. Remove gross filth from surfaces to be disinfected by cleaning with SaniDate Disinfectant solution by wiping, mopping, or as a coarse spray. Applications involving treatment of food contact surfaces require a sterile or potable water rinse following disinfection.

**COMBINATION DISINFECTION AND CLEANING**

Use a rate of 1.3 fl. oz. per gallon for hard non-porous surfaces that are lightly soiled or have been pre-rinsed to remove gross contamination. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.

For treating sewer backups and for flooding remediation, prepare disinfecting solution of SaniDate by adding (1.3 fl. oz.) 2.5 fl. oz. of the product to 1 gallon of potable water. Remove gross filth from surfaces by cleaning with SaniDate Disinfectant (apply) solution by wiping, mopping, or as a coarse spray. Applications involving treatment of food contact surfaces require a sterile or potable water rinse following cleaning. *(Not for use in California)*.

**DISINFECTING PHARMACEUTICAL AND COSMETIC SURFACES**

SaniDate Disinfectant is recommended for use on hard, non-porous, environmental surfaces such as floors, walls and processing equipment in pharmaceutical and cosmetic processing facilities. This product is effective at 1.3 fl. oz. per 1 gallon water for pre-washed or lightly soiled surfaces to disinfect. For heavily soiled or surfaces that have not been pre-cleaned, use a rate of 2.6 oz per gallon. Rinse all surfaces thoroughly with the disinfecting solution and maintain a contact time of at least 10 minutes. Product contact surfaces must be rinsed with sterile water.

**ANIMAL HEALTH**

SaniDate Disinfectant is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, SaniDate Disinfectant is specifically designed to disinfect, deodorize and clean inanimate, hard surfaces such as walls, floors, sink tops, furniture, operation tables,

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kennel runs, cages, and feeding and watering equipment. In addition SaniDate Disinfectant will disinfect bins and cans, and any other 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, AND CRATES**

- 1. Remove all poultry and feeds from premises, trucks, coops and crates.
- 2. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
- 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 1.3 fl. oz. per 1 gallon of water for a period of 10 minutes.
- 6. Immerse all types of equipment used in handling and restraining poultry, as well as forks, shovels and scrapers used for removing litter and manure.
- 7. Ventilate buildings, coops and other closed spaces. Do not house poultry 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.

**POULTRY HATCHERY DISINFECTION**

- 1. Clean out any remaining eggs and chicks. Remove all poultry and feed 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 1.3 fl. oz. per 1 gallon of water for period of 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.

**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 1.3 fl. oz. per 1 gallon of water for a period of 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 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, and poultry premises.

1. Prior to use of this product, rinse or brush footwear surfaces to remove gross filth.
2. Make a solution using 1.3 – 2.6 fl. oz. of SaniDate Disinfectant per gallon of water and add to foot bath mat, pad or tray, filling to capacity. Use the higher rate for heavy soil load.
3. Place boots and shoes in the foot bath mat, pad or tray containing the recommended solution of SaniDate Disinfectant. 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.

### **DISINFECTION OF NON-FOOD CONTACT PACKAGING EQUIPMENT**

Prior to use of this product, remove gross soil particles from surfaces. Wash with a recommended detergent solution, rinse thoroughly with potable water. For disinfection against beverage spoilage organisms that include *Pediococcus damnosus*, *Lactobacillus malefermentans*, and *Saccharomyces cerevisiae* apply 1.3 fl. oz. of SaniDate Disinfectant per gallon of water to surfaces at a temperature of 25 to 45 deg C and allow to remain wet for ten (10) minutes. Allow surfaces to drain thoroughly before operations are resumed.

### **DISINFECTION OF WATER FILTER MEDIA, MEMBRANES AND RELATED COMPONENTS AND SYSTEMS** (Not for use in California)

SaniDate Disinfectant is an effective disinfectant used for the reduction and removal of bio-organisms on the surfaces of the filter and membrane media, media housings, and related devices and equipment. SaniDate Disinfectant may be used for filter media or related system components or in Clean in Place (CIP) systems.

Disinfection and/or treatment of filter media and membrane in potable water systems should be performed when system is **NOT** in use or online.

SaniDate Disinfectant has been tested for compatibility with a wide range of materials of construction. SaniDate Disinfectant is suitable for use with most nonmetallic and metallic piping, valves, pumps and tanks. Long term exposure to concentrate may accelerate corrosion of galvanized steel, bronze, brass or copper. Dirty or moderate to heavy soiled filters and/or membranes should be cleaned in accordance with the manufacturer's guidelines to remove contaminants from the membrane surface.

SaniDate Disinfectant contains a minimum amount of surfactant; additional surfactant can be added to the treatment solution. Contact the BioSafe Systems and/or authorized distributor for clarification or additional surfactant compatibility information.



For Curative Treatments:

For filters and or filtration media, use a rate of 0.25 to 2.5 fl. oz. per gallon (or a rate range of 1:50 – 1:500). Immerse the filter and allow to soak for a minimum of ten (10) minutes. Drain filter media and then rinse with clean water. Prior to placing filter back on line, test a sample of the filtrate using BioSafe Test Strips to determine remaining active ingredient levels.

For clean in place (CIP) filters use a rate of 6.4 to 25 fl. oz. per 100 gallons (or a rate range of 1:500 – 1:2000). Re-circulate treatment solution through the filter for a minimum of 10 minutes. Upon completion of treatment cycle, flush filter housings and or assemblies with clean water. Test sample of water being used to flush filter media with BioSafe Systems test strips to determine remaining active ingredient levels.

For treatment of membranes use a rate of 0.25 fl. oz. per gallon, with a pH range of 3-7 and maximum water temperature of 80 degrees F. Allow the membranes to soak for a minimum of 10 minutes. Flush or rinse membranes with clean water after treatment. Test flush water with BioSafe Systems test strips to determine remaining active ingredient levels.

For treatment membranes in CIP systems use a rate 6.4 to 25 fl. oz. per 100 gallons (or a rate range of 1:500 – 1:2000), with a pH of 3-7 and a maximum water temperature of 80 degrees F. After thorough draining of the solution, rinse the membrane thoroughly with clean water for a minimum of 10 minutes. Test sample of flush water with BioSafe Systems test strips to determine remaining active ingredient levels.

To calculate amount of product to be used for CIP systems, identify total volume of all tanks, vessels and piping. Prepare dilution based on sum of all identified tank, vessel and piping volumes.

For Preventative Treatments:

For preventative applications add or inject SaniDate Disinfectant to water through calibrated metering pump or injector at rates of 1:2000 to 1:10,000. To monitor and maintain the active ingredient level install a ORP sensor and interface with proportioning controller or take random grab samples and check using BioSafe systems test strips.

**PACKINGHOUSE DISINFECTION**

(For Pre-Cleaned Surfaces:) Use a rate of 1.3 fl. oz per gallon for hard non-porous surfaces that are lightly soiled or have been pre-rinsed to remove gross contamination. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, and then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.

**PACKINGHOUSE DISINFECTION (AGAINST CITRUS CANKER)**

SaniDate Disinfectant is effective against *Xanthomonas campestris (axonopodis)* pathovars *citrumelo* (citrus canker surrogate).

1. Remove gross contamination with a cleaner or other suitable detergent and rinse with potable water.
2. Use SaniDate Disinfectant at a dilution rate of 1:400 – 1:800 as a general coarse spray to reduce bacterial and fungi contamination of walls, floors, conveyors and harvesting containers.

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3. Allow to contact surface for ten (10) minutes. Allow to air dry, do not rinse.

**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 packinghouses, 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 1.3 – 2.6 fl. oz. of SaniDate Disinfectant per gallon of water and add to foot bath mat, pad or tray, filling to capacity. Use the higher rate for heavy soil load.
3. Place boots and shoes in the foot bath mat, pad or tray containing the recommended solution of SaniDate Disinfectant. 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.

**FIELD EQUIPMENT DISINFECTION (AGAINST CITRUS CANKER)**

SaniDate Disinfectant may be used to disinfect harvest equipment such as pickers, trailers, trucks (including truck body parts and tires), bins, packing crates, ladders, power tools, hand tools, gloves, rubber boots, pruning shears or other equipment that may transfer *Xanthomonas campestris (axonopodis)* pathovars *citrumelo* (citrus canker surrogate). This product can also be used to disinfect surfaces contaminated with *P. aeruginosa*, *S. enterica* and *S. aureus*.

1. Before disinfection, move the field equipment into an area with an impervious surface and with controlled drainage. Ensure that no disinfection solution will be released into the environment.
2. Remove gross contamination with a cleaner or other suitable detergent and rinse with water.
3. For *Xanthomonas campestris (axonopodis)* pathovars *citrumelo* (citrus canker surrogate), use SaniDate Disinfectant at a dilution rate of 1:400 – 1:800 as a general coarse spray. For *P. aeruginosa*, *S. enterica* and *S. aureus*, use SaniDate Disinfectant at a dilution rate of 1:100 (1.3 fl. oz./gal) as a general coarse spray.
4. Allow SaniDate Disinfectant to contact surface for ten (10) minutes.
5. Allow to air dry, do not rinse.

**GENERAL SANITIZATION**

SaniDate Disinfectant is an effective inanimate, non-food contact, hard surface sanitizer against bacteria, fungus, and mold. Use as a sanitizer on surfaces such as floors, walkways, walls, tables, chairs, benches, countertops, cabinets, bathroom fixtures, sinks, shelves, racks, crates, carts, trailers, vehicles, conveyors, refrigerators, coolers, fan blades, ductwork, drain, piping, dehumidifiers, industrial and commercial air handling systems, commercial, municipal and process water transfer, and handling systems, filter housings, vats, tanks, pumps, valves and systems.

SaniDate Disinfectant is an effective inanimate surface and material sanitizer for personal equipment such as boots, gloves, hard hats, raingear and similar outer garments, tools and equipment including but not exclusive to buckets, pails, scrapers, squeegees, brooms, mops, shovels, rakes, hooks, wrenches, screwdrivers.

SaniDate Disinfectant 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. For use on other materials contact the factory for information on material compatibility.

**NON-FOOD CONTACT SURFACE SANITIZATION**

SaniDate Disinfectant is an effective sanitizer against *Staphylococcus aureus* and *Klebsiella pneumoniae*. SaniDate Disinfectant may be used in general commercial environments to clean, disinfect, sanitize, and deodorize inanimate surfaces, such as:

- Floors, walls, and other non-porous surfaces such as tables, chairs, counter tops, garbage cans/bins, bathroom fixtures, sinks, bed frames, shelves, racks, carts, refrigerators, coolers, glazed tile, and use sites listed on this label made of linoleum, vinyl, glazed porcelain, plastic (such as polyethylene), stainless steel, or glass.
- Packinghouses, food processing, fresh cut, food distribution and storage, beverage processing facilities, groceries, and food retail and wholesale stores. Milking parlors, dairy production and transfer facilities and equipment.
- Schools, colleges, industrial facilities, dietary areas, office buildings, recreational facilities, retail and wholesale establishment.
- Animal hospitals, veterinary clinics, animal life science laboratories, kennels, kennel runs, cages, feeding and watering equipment, pet shops, zoos, pet animal quarters, poultry premises, trucks, hatcheries and live stock quarters and pens.

**Pre-Cleaned Surfaces:**

1. Remove gross filth with a cleaner or other suitable detergent.
2. Add 0.5 fl. oz. (1: 250) of SaniDate Disinfectant to 1 gallon of potable water.
3. Soak items in/with diluted solution using mop/wipe, coarse spray or flood techniques and allow contact for at least five (5) minutes. Allow items and/or surfaces to drain adequately or air dry.

**FIELD EQUIPMENT SANITIZATION**

SaniDate Disinfectant may be used to sanitize harvest equipment such as pickers, trailers, trucks (including truck body parts and tires), bins, packing crates, ladders, power tools, hand tools, gloves, rubber boots, pruning shears or other equipment that may transfer *Xanthomonas campestris (axonopodis)* pathovars *citrumelo* (citrus canker surrogate). This product can also be used to sanitize surfaces contaminated with *P. aeruginosa*, *S. enterica* and *S. aureus*.

1. Before sanitization, move the field equipment 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 a cleaner or other suitable detergent and rinse with water.
3. Use SaniDate Disinfectant at a dilution rate of 1:50 (1.25 fl oz per gallon of clean water) as a general sanitizing coarse spray.
4. Allow sanitizer to contact surface for at least one (1) minute.
5. Allow to air dry. Do not rinse.

**FOOD CONTACT SURFACE SANITIZATION**

SaniDate Disinfectant is an effective sanitizer for food contact surfaces. This product is an effective sanitizer against *Staphylococcus aureus*, *Salmonella enterica* and *Escherichia coli*.

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Surfaces to be sanitized include but are not exclusive to non-wooden cutting boards, tabletops, trays, pans, racks, platters, cans, vats, tanks.

**Pre-cleaned Surfaces:**

1. Prior to sanitizing food contact surfaces, pre-clean by removing gross food particles.
2. Wash with a detergent solution, followed by a potable water rinse.
3. Prepare a solution of SaniDate Disinfectant by adding 0.5 fl. oz. per gallon of water.
4. Apply the solution to the surface by wiping, mopping with solution or by a coarse spray.
5. Allow to remain on surface for 1 minute, allow to air dry.

**SANITIZING FOOD PROCESSING EQUIPMENT**

SaniDate Disinfectant is recommended for use on pre-cleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing plants. SaniDate Disinfectant is an effective sanitizer for use in the washing, rinsing and sanitizing of conveyor, boxing or packing equipment, peelers, corers, de-boners, scrapers, collators, slicers, dicers, knives, saws etc.

1. Remove all products from equipment unless treating only the return portion of a conveyor.
2. Prepare SaniDate Disinfectant solution by adding 0.5 - 2.5 fl oz ounces to 1 gallon of potable water. (1:250 –1:50). Solutions stronger than 1:250 (0.5 fl. oz.) must be followed by a potable or sterile water rinse.
3. Apply sanitizer solution to the return portion of the conveyor or to equipment using a coarse spray or other means of wetting the surfaces, (treat for at least one (1) minute). Control the volume of solution so as to permit maximum drainage and prevent puddles. The conveyor may still be damp when food contact occurs.
4. Allow equipment to drain adequately before reusing; a dry surface is not required.

**SANITIZING EATING, DRINKING, AND FOOD PREP UTENSILS**

1. Remove gross food particles by a prescrape, preflush and when necessary, a pre-soak treatment.
2. Wash with a recommended detergent.
3. Rinse with clean water.
4. Sanitize in a solution of 0.5-1.25 fl oz SaniDate Disinfectant to 1 gallon of water. Immerse all utensils for at least 1 minute or contact time specified by governing sanitary code.
5. Drain and air dry.

**SANITIZING TABLEWARE**

For sanitizing tableware in low to ambient temperature ware washing machines, inject SaniDate Disinfectant into the final rinse water using 2.5 fl oz. of concentrate per gallon of water. Solution must contact tableware for a minimum of 5 minutes. To insure that the SaniDate Disinfectant concentration dose not fall below 0.1%, periodically test the rinse solution with a suitable test kit and adjust the dispensing rate accordingly.

NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be reused for sanitizing but may be reused for other purposes such as cleaning. FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.

**PACKINGHOUSE SANITATION**

SaniDate Disinfectant is effective against *Xanthomonas campestris (axonopodis)* pathovars *citrumelo* (citrus canker surrogate) and *Staphylococcus aureus*.

1. Remove gross contamination with a cleaner or other suitable detergent and rinse with potable water.
2. Use SaniDate Disinfectant at a dilution of 1:600 as a general sanitizing coarse spray to reduce bacterial and fungi contamination of walls, floors, conveyors and harvesting containers.
3. Allow sanitizer to contact surface for at least one (1) minute.
4. Allow to air dry. Do not rinse.

For direct injection into spray waters used in packinghouse process lines and humidification systems, treat water to control *Staphylococcus aureus*, *S. enterica*, and *P. aeruginosa* by injecting SaniDate Disinfectant directly into spray system water with 1.25 fl oz. for every gallon of water. Applicable for use on all types of post harvest commodities.

**POST HARVEST APPLICATIONS**

Use SaniDate Disinfectant to treat bacterial and fungal diseases in post-harvest waters, systems, equipment, structures and on agricultural commodities.

**TREATMENT FOR NON-POTABLE WATER SYSTEMS (wash tanks, dip tanks, drench tanks, evaporators, humidification systems and/or storage tanks)**

Treat water containing plant pathogens with 1.5 to 5.4 fl. oz. of SaniDate Disinfectant for every 10 gallons of water or use a dilution rate of 1:235 to 1:833. This will provide 1200 to 4255 ppm of SaniDate Disinfectant, or 24 to 85 ppm 100% peracetic acid in the use solution.

**POST HARVEST SPRAY TREATMENTS ON PROCESS AND PACKING LINES**

Inject SaniDate Disinfectant directly into spray, misting, humidification, fogging and spray bar system make up water on process and packing lines to prevent bacterial and fungal diseases on post-harvest fruits and vegetables. Inject SaniDate Disinfectant at a 1:100 – 1:1000 dilution rate to clean water. For best results, where dump tanks are used, make post harvest spray treatment as fruit is leaving dump tanks. For Fog Tunnel and fogging applications, inject SaniDate Disinfectant directly into the system at a rate of 1:50- 1:250. Allow a contact time of 20-30 seconds with the fog. For best results, distribute produce in a single layer on the conveyor and ensure uniform distribution of fog across produce surface by either rolling the produce as it passes on the conveyor or by even distribution of the fog nozzles in the treated area.

Applicable for use on all types of post-harvest commodities. See specific directions for treatment of post-harvest potatoes.

**For direct injection into dump tanks, hydro coolers, spray systems and process waters -**

For treatment of water containing plant pathogens, inject SaniDate Disinfectant and maintain a predetermined residual level by using metering equipment, coupled with ORP measuring probes. Applicable for use on all types of post harvest fruits and vegetables.

- 1) Determine biological organic loading prior to treatment if possible.
- 2) For waters that contain biological and organic loading, inject SaniDate Disinfectant at 25 fl. oz. – 12.8 fl. oz. of SaniDate Disinfectant for every 100 gallons of water or at a dilution rate of 1:500 – 1:1,000.

- 3) For clean water inject SaniDate Disinfectant at 1.28 fl. oz. of SaniDate Disinfectant for every 100 gallons of water or a dilution rate of 1:10,000 to prevent the formation of algae, bacteria and fungi.

**Note:** For post harvest applications, only use SaniDate Disinfectant at labeled dilution rates. Solutions more concentrated than prescribed on this label may result in damage to the commodity (i.e., do not use dilutions less than 1:50 for treatments). The safety of SaniDate Disinfectant has not been determined on all crops. SaniDate Disinfectant has been used and tested on many commodities; however, certain commodities may be sensitive to high concentrations of SaniDate Disinfectant. Determine if SaniDate Disinfectant can be safely used prior to application. Before treating a large number of commodities, test a small group using SaniDate Disinfectant at labeled rates and observe for symptoms of sensitivity prior to use.

In dump tanks that contain commodities with sensitive skin, use a rate of 1:2000 per 100 gallons of water to prevent oxidation of abrasions that may turn brown.

**POST HARVEST SPRAY TREATMENT**

Use SaniDate Disinfectant to prevent bacterial and fungal diseases on post-harvest fruits and vegetables. Mix 1.25 fl. oz. SaniDate Disinfectant per gallon of clean water. Spray fruit or vegetables to runoff using hydraulic, backpack, air-assisted or other similar sprayer.

**DISINFECTION OF POTATO STORAGE AREAS AND EQUIPMENT**

This product is an effective disinfectant against the following organisms:

- |                               |  |
|-------------------------------|--|
| <i>Escherichia coli</i>       | <i>Lactobacillus malefermentans</i>                  |
| <i>Pseudomonas aeruginosa</i> | <i>Pediococcus damnosus</i>                          |
| <i>Salmonella enterica</i>    | <i>Listeria monocytogenes</i>                        |
| <i>Salmonella enteritidis</i> | <i>Klebsiella pneumoniae</i>                         |
| <i>Salmonella typhimurium</i> | <i>Enterobacter aerogenes</i>                        |
| <i>Proteus vulgaris</i>       | <i>Staphylococcus aureus</i>                         |
| <i>Streptococcus pyogenes</i> | <i>Aspergillus versicolor</i>                        |
| <i>Aspergillus fumigatus</i>  | <i>Clavibacter michiganense (Bacterial Ring Rot)</i> |

1. Remove all potatoes prior to disinfection of potato storage areas and equipment.
2. Prior to use of this product, remove gross soil particles from surfaces to be treated. For heavily soiled surfaces, a pre-wash is required.
3. Apply 1.3 fl. oz of SaniDate Disinfectant per gallon of water with a mop, cloth, sponge, or hand trigger spray so as to wet all surfaces thoroughly.
4. Allow to remain wet with solution for ten (10) minutes.
5. Rinse all treated surfaces thoroughly with potable water before operations are resumed.

Spray treatments for newly harvested potatoes before storage –

Crops	Disease	Application Rate	Directions
Potatoes	Bacteria Soft Rot Early Blight Fusarium Tuber Rot Late Blight Silver Scurf Bacterial Ring Rot	1¼-2½ fl. oz. of SaniDate Disinfectant per gallon of water.	Spray diluted solution on tuber to runoff to achieve full and even coverage. The use of additional surfactant is acceptable to aid in sticking. Use 1 to 2 gallons of water per ton of potatoes.

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Direct injection into humidification water for post-harvest potatoes in storage –

Crops	Disease	Application Rate	Directions
Potatoes	Bacteria Soft Rot Early Blight Fusarium Tuber Rot Late Blight Silver Scurf Bacterial Ring Rot	1.25 fl. oz. of SaniDate Disinfectant per gallon of water.	Inject concentrate into makeup water used in humidification of post-harvest potatoes in storage.

**BACTERIOSTATIC** (Not for use in California)

At 1.3 fl. oz. per 1 gallon of water SaniDate Disinfectant is effective at inhibiting the growth of bacteria when used in the presence of 400 ppm hard water and organic soil. SaniDate Disinfectant can be used on floors, walls and other hard nonporous surfaces such as tables, chairs, countertops, bathroom fixtures, sinks, shelves, racks, carts, refrigerators, coolers, tile, and use sites listed on this label made of linoleum, vinyl, glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

**STOCK TANKS AND LIVESTOCK WATER**

Use SaniDate Disinfectant to suppress / control algae, bacteria and fungi in stock tanks, stock watering ponds, tanks and troughs, and livestock water. Apply 2 fluid ounces of SaniDate Disinfectant per 250 gallons of water 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 Disinfectant over the algae mats. Apply SaniDate Disinfectant as needed to control and prevent algae growth; make applications 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 Disinfectant based upon water flow rates. Pre-dilute SaniDate Disinfectant at a 100: 1 rate or 4-mL/minute water flow rate. Treat continuously or as needed to control and prevent algae re-growth.

**SEWAGE WATER TREATMENT** (Not for use in California)

Use SaniDate Disinfectant for the control of bacteria and the malodors caused by hydrogen sulfide gas. Application rates may vary depending on amounts of organic matter (sewage) in lagoons and pits. Pour SaniDate Disinfectant directly from the container into the pit or lagoon at several locations to aid in dispersal. Use one gallon of SaniDate Disinfectant for 60,000 gallons (8,000 cubic feet) of sewage. For best results, disperse SaniDate Disinfectant evenly throughout sewage. Odors should be noticeably reduced in 1-2 weeks. Repeat application when odor reappears. For lagoons, wait 24 hours before adding beneficial bacteria.

**TREATMENT OF AGRICULTURAL IRRIGATION WATER AND DRAINAGE DITCHES**

Use SaniDate Disinfectant to treat water to suppress / control algae, bacteria, fungi and plant pathogenic organisms in agricultural irrigation and drainage water and ditches. For irrigation water, apply 4 to 8 fluid ounces of SaniDate Disinfectant per 1,000 gallons of water. Product can

be simply added to the body of water, as the residual control will allow for even distribution throughout the water column. Allow solution to disperse for five (5) minutes before irrigating. Apply SaniDate Disinfectant as needed to control and prevent algae growth; apply more often in times of higher water temperatures.

**TREATMENT OF AGRICULTURAL IRRIGATION SYSTEMS**

Use SaniDate Disinfectant to suppress / control algae, bacteria, fungi and plant pathogenic organisms in drip trickle irrigation systems, center pivot, lateral move, end tow, side wheel roll, traveler, solid set/overhead sprinklers, hand move or flood basin irrigation systems. Treat contaminated water at a dilution of 1:500 -1:5000. For maintenance, treat clean water with a dilution of 1:10,000 to 1:20,000 of SaniDate Disinfectant as needed. Allow solution to disperse for five (5) minutes before irrigating. Refer to Chemigation Directions for Use for specific instructions on using this product through irrigation systems.

**CHEMIGATION**

General Requirements -

- 1) Apply this product only through a drip system or sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, hand move, flood (basin), furrow, border or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.
- 2) Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- 3) If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- 4) Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- 5) A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- 6) Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.
- 7) Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.
- 8) All words shall consist of letters at least 2.5 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of

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the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

**Specific Requirements for Chemigation Systems Connected to Public Water Systems -**

- 1) Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2) Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4) The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 5) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

**Specific Requirements for Sprinkler Chemigation -**

- 1) The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.
- 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

**Specific Requirements for Flood (Basin), Furrow and Border Chemigation -**

- 1) Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
- 2) The systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
  - a. The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
  - b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
  - c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
  - d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
  - e. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
  - f. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.

**Specific Requirements for Drip (Trickle) Chemigation -**

- 1) The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.

**Application Instructions -**

- 1) Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and entire injector system. Flush with clean water. Failure to provide a clean tank, void of scale or residues may cause product to lose effectiveness or strength.

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- 2) Determine the treatment rates as indicated in the directions for use and make proper dilutions.
- 3) Prepare a solution in the chemical tank by filling the tank with the required water and then adding product as required. The product will immediately go into suspension without any required agitation.
- 3) Do not apply SaniDate Disinfectant in conjunction with any other pesticides or fertilizers.
- 4) Mix SaniDate Disinfectant only with water, and at the recommended rates. Do not mix SaniDate Disinfectant with any other substances.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use 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

**CONTAINER DISPOSAL (Containers equal to or less than 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. Batch Code \_\_\_\_\_

**CONTAINER DISPOSAL (Containers greater than 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. Batch Code \_\_\_\_\_

**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.

In no event shall BIOSAFE SYSTEMS or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF BIOSAFE SYSTEMS AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF BIOSAFE SYSTEMS OR SELLER, THE REPLACEMENT OF THE PRODUCT.

BIOSAFE SYSTEMS and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of BIOSAFE SYSTEMS.

## Optional Label Claims

- SaniDate Disinfectant is a versatile cleaner, sanitizer, and broad-spectrum disinfectant for hard, non-porous surfaces.
- SaniDate Disinfectant contains no phosphorous.
- SaniDate Disinfectant cleans by removing dirt, grime, blood, urine, fecal matter and other common soils found in animal housing facilities, livestock, swine and poultry facilities, grooming facilities, farms, kennels, pet stores, veterinary clinics, laboratories, or other small animal facilities. It (also) eliminates odors leaving surfaces smelling clean and fresh.
- SaniDate Disinfectant is an economical concentrate that can be used with a mop and bucket, trigger spray, sponge, or by soaking.
- SaniDate Disinfectant will not leave a grit or soap scum.
- When used as directed, this product will deodorize surfaces in restrooms and toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors.
- SaniDate Disinfectant inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. *Not for use in California*
- SaniDate Disinfectant is a versatile disinfectant and sanitizer for veterinarian, animal care, animal laboratory, and agricultural and farm premises applications.
- SaniDate Disinfectant is approved as a sanitizer in public eating places, dairy processing equipment, packing houses, and on food processing equipment and utensils. A potable rinse is not allowed when used as a sanitizer on food contact surfaces.
- SaniDate Disinfectant is for use as a sanitizer on food contact surfaces, food processing equipment and utensils, and as a disinfectant on hard, non-porous surfaces. A potable water rinse is not allowed when used as a sanitizer on food contact surfaces.
- SaniDate Disinfectant is for use as a sanitizer in bottling and beverage dispensing equipment.
- SaniDate Disinfectant is for use as a sanitizer in sanitary filling of bottles and cans.
- SaniDate Disinfectant is for use as a sanitizer in beer fermentation and holding tanks.
- SaniDate Disinfectant is for use as a sanitizer in wineries for use on holding tanks, floors, and processing equipment.
- SaniDate Disinfectant is for use as a sanitizer in dairy clean-in-place systems.
- Use SaniDate Disinfectant on the multi-touch surfaces responsible for cross-contamination.
- SaniDate Disinfectant is a concentrate formulation designed for use in commercial, institutional, and industrial operations.
- SaniDate Disinfectant controls the growth of odor-causing and slime forming bacteria.
- SaniDate Disinfectant is an effective anti-microbial cleaner.
- When used as directed, SaniDate Disinfectant will disinfect hard, non-porous surfaces such as walls, floors, garbage pails, and other areas where obnoxious odors may develop.

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- SaniDate Disinfectant may be applied through automatic washing systems, immersion tanks, foaming apparatus, low-pressure sprayers and fogging (wet misting) systems.
- SaniDate Disinfectant meets AOAC Germicidal and Detergent Test Standards for food contact surfaces.
- SaniDate Disinfectant meets AOAC efficacy standards for hard surface sanitizing.
- SaniDate Disinfectant meets AOAC efficacy standards for hard surface non-food contact sanitizing.
- SaniDate Disinfectant is formulated to effectively eliminate offensive odors caused by mold and mildew.
- Antibacterial
- Hospital Use Disinfectant
- Institutional Use Disinfectant
- Disinfectant
- Sanitizer
- Deodorizer
- Easy to use
- For sanitizing of hard, non-porous surfaces, structures & equipment
- Ready to use Activated Peroxide Disinfectant
- Activated Peroxygen treatment
- Activated Peroxygen chemistry
- Contains no phosphates
- Sanitizes and deodorizes
- Leaves no residue
- Scent free
- Chlorine free
- Versatile Sanitizer
- A post harvest treatment for the prevention and control of plant pathogenic diseases on all fruits and vegetables and other agricultural crops in dump tanks, hydro coolers and process waters.
- A treatment for the prevention and control of plant pathogenic diseases on surfaces, equipment and structures used in processing post-harvest commodities.
- Controls the growth of odor-causing and slime forming bacteria
- A treatment for the prevention and control of algae & cyanobacteria in waters
- Easy to use
- Effective over a wide range of pH conditions
- Reduces organic build-up and noxious odors including hydrogen sulfide
- Controls algae blooms
- Controls odors
- Algaecide
- Kills algae
- Non harmful to fish or aquatic life
- May be used in water features containing fish and plants
- Keeps water clean
- Rids water of algae
- Removes algae on contact
- Treats, controls, and prevents algae
- Use on water gardens, ornamental ponds, waterfalls, fountains, or stone water features

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- Alternative to copper-based products
- Liquid algaecide for treating waterscapes
- Enhance water's quality and appearance
- Kills stubborn algae quickly
- Removes algae from your water
- Fast-acting algae control
- Pond algaecide
- Kills stubborn algae
- Reduces algae growth
- Inhibits growth of many types of algae
- Biodegradable
- Will not harm plants
- Contains no metals
- For water with fish
- For pristine water
- For algae-free water
- Begins working immediately
- Eliminates algae
- Get rid of algae problems
- Algaecide
- Fungicide
- Bactericide
- Broad Spectrum
- Broad Spectrum Algaecide/Bactericide
- Broad Spectrum Bactericide/Fungicide
- Broad Spectrum Algaecide/Fungicide
- Broad Spectrum Algaecide/Bactericide/Fungicide
- Preventative treatment for seeds, growing plants, fruits, nuts and vegetables.
- A treatment for the prevention and control of plant pathogenic diseases in field grown crops, greenhouses, and storage sites.
- A post harvest treatment for the prevention and control of plant pathogenic diseases on fruits and vegetables and other agricultural crops in dump tanks, hydro coolers and process waters.
- A treatment for the prevention and control of plant pathogenic diseases on surfaces, equipment and structures used in processing post-harvest commodities.