

70299-8

2-20-2008

1/12



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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

FEB 20 2008

BioSafe Systems  
22 Meadow St.  
East Hartford, CT 06108

Attention: Donna Bishel  
Regulatory Manager

Subject: Sanidate 12.0 Microbiocide  
EPA Reg. No. 70299-8  
Amendment Dated November 7, 2006

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable pending that the following changes are incorporated:

- On page 2, under the **Direction of Use** section, after the statement "This product is not intended as treatment against any public health organism", add this following statement: Uses are intended to treat algal and odor causing bacteria.
- On page 2, under the **Direction of Use** section, delete the bullet "For use in bilge water treatment applications". An assessment has not been conducted for that use that would analyze risks to human health and the environment for hydrogen peroxide and peroxacetic acid. To add this language to the label, your company must submit the applicable data to support the use.
- On page 2, under the **Direction of Use** section, delete the entire forth bullet. This section was ambiguous. In particular, you referenced (in the beginning of the Direction of Use Section) a disclaimer stating that the product will not be used as a treatment against public health organisms. There are use sites mentioned in the bullet that are typically reserved for the removal of pathogenic organisms as sanitizers or disinfectants. Moreover, consumers may not be able to distinguish the difference public or non-public health organism claims when purchasing this product. Furthermore, if your company intends to support this product as a sanitizer, efficacy data needs to be submitted to support this use. The concentrations of active ingredients the products you referenced through correspondence with EPA does not match the concentrations in your proposed amended product. Therefore, it is recommended that you delete all listed bullets to remove any uncertainty or confusion.

- On page 2, under the **Direction of Use** section, delete the entire fifth bullet. It is a repeating statement.
- On page 2, under the **Direction of Use** Section, in regards to the sixth bullet (Treatment of fruit and vegetable processing waters), the Agency does not object to this claim being added to the label. However, appropriate language to describe the use pattern has not been added to the label. Therefore, EPA recommends that your company peruse the language used for EPA Registration Number 1677-164 (see the section titled "**FOR TREATMENT OF FRUIT AND VEGETABLE SURFACES AND PROCESS WATERS**") as an example. Your language should be specific that this product is for the "control of the growth of spoilage and decay causing non-public health organisms in process waters and on the surface of fruits and vegetables".
- On page 2, under the **Direction of Use**, under the wording "The main areas of use include", delete the last two bullets: "Packinghouses, food processing and rendering plants" and "Dairies, breweries, wineries". See bullet number 3 above.
- On page 2, under the **Direction of Use** section, delete the following statement "SaniDate®12.0 is an effective inanimate, hard non porous surface sanitizer and disinfectant". See bullet number 3 above.
- On page 2, under the **Direction of Use** section, in the statement that begins, "SaniDate®12.0 is effective on the use sites..." delete the word "nylon" in that language. Your company has not submitted data to support use on porous surfaces.
- On page 2, delete the entire section that states "**SANTIZING PRE-CLEANED HARD NON-PORUS FOOD CONTACT SURFACES AND EQUIPMENT**". See bullet number 3 above.
- On page 3, delete the entire section that states "**SANTIZING PRECLEANED PACKINGHOUSES, FOOD PROCESSING & RENDERING PLANTS**". See bullet number 3 above.
- On page 3, delete the entire section that states "**PACKINGHOUSE, FOOD PROCESSING RENDERING PLANT DISINFECTION**". See bullet number 3 above.
- On page 3, delete the entire section that states, "**POST HARVEST TREATMENTS IN PACKING HOUSES**". See bullet number 3 above.
- On page 4, delete the entire section that states, "**FOR DIRECT INJECTION INTO DUMP TANKS, HYDRO COOLERS, SPRAY SYSTEM AND PROCESS WATERS**". These uses are intended to treat water for contamination of bacteria (particularly public health organisms). Therefore, the rationale stated in bullet number 3 applies in this particular case.
- On page 4, delete the entire section that states "**TREATMENT OF BILGE WATER**". The Agency currently has not assessed environmental risks associated with use of hydrogen peroxide and peroxyacetic acid in ballast or bilge water treatment systems. To

proceed with this use, your company would need to submit the applicable data to support this use.

- On page 4, in the section titled **“CONTROL OF ALGAL, FUNGAL, AND BACTERIAL GROWTH...”** after the word **“BACTERIAL”** add the words **“ODOR CAUSING”**.
- On page 5, in the section titled **“CONTROL OF ALGAL, FUNGAL, AND BACTERIAL GROWTH FOR NON-FOOD...”** after the word **“BACTERIAL”** add the words **“ODOR CAUSING”**.
- On page 5, in the section titled **“CONTROL OF ALGAL, FUNGAL, AND BACTERIAL GROWTH FOR IN INDOOR...”** after the word **“BACTERIAL”** add the words **“ODOR CAUSING”**.
- On page 6, in the section titled **“CONTROL OF ALGAL, FUNGAL, AND BACTERIAL GROWTH ON NON FOOD...”** after the word **“BACTERIAL”** add the words **“ODOR CAUSING”**.
- On page 6, in the section titled **“TREATMENT OF GREENHOUSE SURFACES AND EQUIPMENT”**, delete the wording **“ventilation ducts”**. This use has not been approved for products that contain both hydrogen peroxide and peroxyacetic acid. Therefore, a risk assessment would have to be conducted to determine exposure to workers in greenhouse settings.

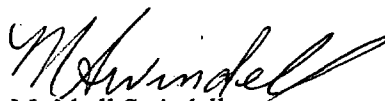
Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) and section 4(a) when the Agency requires all registrants of similar products to submit such data.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the accepted labeling is enclosed. Submit three copies of your final printed labeling to the Agency before distributing or selling the product bearing the revised labeling.

If you have any questions concerning this letter, please contact Demson Fuller at (703) 308-8062.

Sincerely,



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

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

4/12

FEB 20 2008

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.

70299-8

# SaniDate® 12.0

## Microbiocide

### ACTIVE INGREDIENTS:

Hydrogen Peroxide..... 18.5%  
Peroxyacetic Acid..... 12.0%  
OTHER INGREDIENTS:..... 69.5%  
Total:..... 100.00

FOR COMMERCIAL USE ONLY  
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.)*

**STRONG OXIDIZING AGENT**

### PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS - DANGER: CORROSIVE.** Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or clothing. May be fatal if inhaled. Harmful if swallowed. Do not breathe vapor or spray mist. Wear a respirator with an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter. Wear chemical goggles, rubber gloves, and protective clothing when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

#### 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 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>
<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>
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.	
<b>NOTE TO PHYSICIAN</b> - Probable mucosal damage may contraindicate the use of gastric lavage.	

5/12

### PHYSICAL AND CHEMICAL HAZARDS

Strong oxidizing agent. Corrosive. Do not use in concentrated form. Mix only with water according to label instructions. Contact of concentrate with other sanitizers, cleaners or other material may cause fire.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

This product is not intended as treatment against any public health organism for any use on this label. *uses are intended to treat algal and odor causing bacteria*

- For use in commercial, agricultural, and horticultural irrigation water treatment applications
- Treatment of water for industrial and commercial water treatment systems
- ~~• For use in bilge water treatment applications~~
- ~~• Treatment of hard, non-porous non-food contact surfaces and equipment such as conveyors, boxing or packing equipment, tabletops, trays, pans, racks, platters, tanks, pipelines, evaporators, filters~~
- ~~• Treatment of hard, non-porous food contact surfaces and equipment such as conveyors, boxing or packing equipment, tabletops, trays, pans, racks, platters, tanks, pipelines, evaporators, filters~~
- Treatment of fruit and vegetable processing waters

EXEMPTED  
with COMMENTS  
in EPA Letter Dat...

FEB 20 2008

The main areas of use include :

- Fruit and vegetable processing facilities
- Commercial, industrial, agricultural and horticultural facilities
- ~~• Poultry houses, food processing and rendering plants~~
- ~~• Dairies, breweries, wineries~~

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

70299-8

SaniDate® 12.0 works best when diluted with water containing low levels of organic or inorganic materials. Thoroughly rinse out tank with water before mixing concentrate. SaniDate® 12.0 will readily mix with clean water and does not require agitation.

~~SaniDate® 12.0 is an effective inanimate, hard non-porous surface sanitizer and disinfectant.~~

SaniDate® 12.0 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.

### SANITIZING PRE-CLEANED HARD NON-POROUS FOOD CONTACT SURFACES AND EQUIPMENT

- Tanks, vats, piping systems, pumps, filters, 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, cutters, de-boners, scrapers, collators, slicers, dicers, knives, saws, cutting boards, tabletops, trays, pans, racks, platters, and carts.

To clean equipment such as tanks 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. Rinse equipment with potable water.
4. Add 0.85 liquid ounces SaniDate® 12.0 to 10 gallons of potable water, and apply by wiping, mopping, or coarse spray, or by adding to closed system.
5. If applicable, fill closed systems with diluted sanitizing solution at a temperature of 5°C (41°F) to 40°C (104°F).

6/12

- 6. Allow a contact time of 30 seconds.
- 7. Applications involving treatment of food contact surfaces require a sterile or potable water rinse following sanitization.

Allow items and/or surfaces to drain thoroughly before resuming operation.

**SANITIZING PRE-CLEANED PACKINGHOUSES, FOOD PROCESSING & RENDERING PLANTS**

Apply SaniDate® 12.0 to all hard, non-porous surfaces and equipment found in commercial packinghouses including: dump tanks, drenches, crates, containers, conveyors, storages, walls, floors, tabletops, and process lines.

Spray Applications:

- 1) Remove loose soil or organic matter with clean water and/or detergent rinse.
- 2) Use SaniDate® 12.0 at a rate of 0.85 fl. oz. of concentrate per 10 gallons of water. Apply at a coarse spray until runoff.
- 3) Allow a contact time of 30 seconds.
- 4) Allow treated surfaces to air dry. Do not rinse.

**RACKINGHOUSE, FOOD PROCESSING AND RENDERING PLANT DISINFECTION**

Apply SaniDate® 12.0 to all hard, non-porous surfaces and equipment found in commercial packinghouses including: dump tanks, drenches, crates, containers, conveyors, storages, walls, floors, and process lines.

Cover or remove all food and packaging materials before disinfection.

For Pre-Cleaned Surfaces: Use a rate of 2.1 fl. oz per 10 gallons for hard non-porous surfaces that are lightly soiled or have been pre-rinsed to remove gross contamination.

For Uncleaned Surfaces: For heavily soiled hard non-porous surfaces use a rate of 0.4 oz per 1 gallon of water. 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.

**POST HARVEST TREATMENTS IN PACKING HOUSES**

**TREATMENT FOR NONPOTABLE WATER SYSTEMS (WASH TANKS), DIP TANKS, DRENCH TANKS, EVAPORATORS, HUMIDIFICATION SYSTEMS AND/OR STORAGE TANKS**

Treat water containing plant pathogens with 0.25 fl. oz. of SaniDate® 12.0 for every 10 gallons of water.

**FOR DIRECT INJECTION INTO SPRAY WATERS USED ON PROCESS LINES**

Treat water containing plant pathogens by injecting SaniDate® 12.0 directly into spray system water with 2.1 fl. oz. of SaniDate® 12.0 for every 100 gallons of water. Applicable for use on all types of post-harvest commodities.

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

Inject SaniDate® 12.0 directly into spray system water on process and packing lines to prevent bacterial and fungal diseases on post-harvest fruits and vegetables. Inject at 1:600 - 1:6,000 SaniDate® 12.0 to clean water. For best results, when dump tanks are used, make post harvest spray treatment as fruits are leaving dump tanks. Applicable for water treatment on process and packing lines used on all types of post harvest commodities.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

FEB 20 2008

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, by the pesticide,  
regulation under EPA Reg. No  
70299-8

SaniDate® 12.0; EPA Reg. No. 70299-8  
Label version (8) dated November 7, 2007  
MASTER LABEL - Amendment to add new uses  
Page 3 of 9

**FOR DIRECT INJECTION INTO DUMP TANKS, HYDRO COOLERS, SPRAY SYSTEM AND PROCESS WATERS -**

For treatment of water containing plant pathogens, inject SaniDate® 12.0 and maintain a predetermined residual level by using metering equipment, coupled with ORP measuring probes.

- 1) Determine biological organic loading prior to treatment if possible.
- 2) For waters that contain low levels of biological and organic loading inject SaniDate® 12.0 at 0.4 fl. oz. - 1.2 fl. oz. of SaniDate® 12.0 for every 100 gallons of water.
- 3) For clean water inject SaniDate® 12.0 at 0.2 fl. oz. - 0.1 fl. oz. of SaniDate® 12.0 for every 100 gallons of water to prevent the formation of algae, bacteria and fungi.

claim is OK

**FOR AGRICULTURAL IRRIGATION WATER AND DRAINAGE DITCHES**

Use SaniDate® 12.0 to treat water to suppress / control algae, bacteria and fungi in agricultural irrigation and drainage water and ditches. For irrigation water, apply 0.6 to 1.3 fluid ounces of SaniDate® 12.0 per 1000 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. Apply SaniDate® 12.0 as needed to control and prevent algae growth; apply more frequently in times of higher water temperatures.

**TREATMENT OF BILGE WATER**

SaniDate® 12.0 may be applied as either a shock, intermittent, or continuous dosing. Shock dosing may be applied for a duration of 1 to 2 hours, as necessary, whereas intermittent dosing is applied for 2 to 15 minutes, 4 times per day. For either shock or intermittent dosing, apply 0.16 to 0.3 gallons SaniDate® 12.0 per 1,000 gallons of water producing a peak concentration of SaniDate® 12.0 of 160 ppm to 300 ppm during dosing. This is approximately equivalent to a peak dose of 20 to 100 ppm 100% peracetic acid. For continuous dosing applications, apply 0.01 to 0.3 gallons SaniDate® 12.0 to 1,000 gallons of water, producing a peak concentration of 10 to 300 ppm of SaniDate® 12.0. This is approximately equivalent to 1 to 36 ppm 100% peracetic acid.

odor control

**CONTROL OF ALGAL, FUNGAL, AND BACTERIAL GROWTH IN PULP AND PAPER MILL SYSTEMS FOR FOOD AND NON-FOOD CONTACT PAPER**

SaniDate® 12.0 provides an effective means to treat various process waters for slime control. Dosage rates should be increased or decreased depending on the control achieved. **Maximum usage rate must not exceed 2lbs. SaniDate® 12.0 solution per ton (2,000 lbs., dry basis) of pulp or paper produced.**

**TREATMENT OF PAPER MACHINE WHITE WATER** - SaniDate® 12.0 may be applied within the white water short circulation loop on the paper machine. Apply with either shock, intermittent, or continuous dosing. Shock doses may be applied for 1 to 2 hours, as necessary, whereas intermittent doses are applied 1 to 12 times per day, for a duration of 5 to 60 minutes each. For either shock or intermittent dosing, apply 2.5 to 102 fl. oz. of SaniDate® 12.0 per 1000 gallons of white water, producing a peak concentration of 20 to 800 ppm of SaniDate® 12.0 during dosing. This is approximately equivalent to a peak dose of 2 to 100 ppm 100% peracetic acid. For continuous dosing, apply 2.5 to 25 fl. oz. of SaniDate® 12.0 to 1000 gallons of process water, producing a peak concentration of 20 to 200 ppm of SaniDate® 12.0. This is approximately equivalent to 2 to 25 ppm 100% peracetic acid.

**CATALASE CONTROL IN DEINKING WATER LOOPS** - SaniDate® 12.0 may be applied to the inlet lines going to de-inking water storage following clarification. Apply with either shock, intermittent, or continuous dosing. Shock doses may be applied for 10 to 60 minutes as necessary. Apply 1.7 to 4.2 gallons SaniDate® 12.0 per 1000 gallons recirculation water, producing a peak concentration of 1700 to 4200 ppm SaniDate® 12.0 during dosing. This is approximately equivalent to a peak dose of 200 to 500 ppm 100% peracetic acid. For intermittent doses, apply 1 to 12 times per day, for a duration of 10 to 60 minutes. Apply 0.8 to 2.1 gallons SaniDate® 12.0 per 1000 gallons of water, producing a peak concentration of 800 to 2100 ppm of SaniDate® 12.0 during dosing. This is approximately equivalent to a peak dose of 100 to 250 ppm 100% peracetic acid. For continuous dosing, apply 0.2 to 1.4 gallons

with COMMENTS in EPA Letter Dated

FEB 20 2008

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 70299-8

SaniDate® 12.0; EPA Reg. No. 70299-8 Label version (8) dated November 7, 2007 MASTER LABEL - Amendment to add new uses Page 4 of 9

8/12

SaniDate® 12.0 to 1000 gallons of process water, producing a peak concentration of 200 to 1400 ppm of SaniDate® 12.0. This is approximately equivalent to 25 to 170 ppm 100% peracetic acid.

**TREATMENT OF RAW AND PROCESS WATER** - SaniDate® 12.0 may be applied to water at the inlet of the process water system or any other suitable point. Apply with either shock, intermittent, or continuous dosing. Shock dosing may be applied for a duration of 1 to 2 hours, as necessary, whereas intermittent dosing is applied for 2 to 15 minutes, 4 to 100 times per day. For either shock or intermittent dosing, apply 0.16 to 0.8 gallons SaniDate® 12.0 per 1,000 gallons of water producing a peak concentration of SaniDate® 12.0 of 160 ppm to 800 ppm during dosing. This is approximately equivalent to a peak dose of 20 to 100 ppm 100% peracetic acid. For continuous dosing applications, apply 0.01 to 0.3 gallons SaniDate® 12.0 to 1,000 gallons of water, producing a peak concentration of 10 to 300 ppm of SaniDate® 12.0. This is approximately equivalent to 1 to 36 ppm 100% peracetic acid.

**CONTROL OF ALGAL, FUNGAL, AND BACTERIAL GROWTH FOR NON-FOOD CONTACT PAPER USES**

**TREATMENT OF STARCH USED FOR SIZING ON THE PAPER MACHINE** - Apply SaniDate® 12.0 directly to the starch storage tank or through the recirculation loop. Apply with either shock, intermittent, or continuous dosing. Shock doses may be applied for 1 to 2 hours, whereas intermittent doses may be applied for 5 to 60 minutes up to 12 times per day. For either shock or intermittent dosing, apply 0.8 to 5 gallons SaniDate® 12.0 per 1,000 gallons of starch solution to achieve 100 to 600 ppm 100% peracetic acid. For continuous dosing applications, apply 0.08 to 1.7 gallons SaniDate® 12.0 per 1,000 gallons of starch solution, producing a peak concentration of approximately 10 to 200 ppm 100% peracetic acid.

**TREATMENT OF CLAYS USED AS COATINGS AND FILLERS ON THE PAPER MACHINE** - Applications may be made at the recirculation loop or directly to the agitated slurry storage tank. Apply with either shock, intermittent, or continuous dosing. Shock doses may be applied for 1 to 2 hours, as necessary, whereas intermittent doses may be applied for 5 to 60 minutes, 1 to 12 times per day. For either shock or intermittent dosing, apply 51.2 to 102 fl. oz. SaniDate® 12.0 to 1,000 gallons clay slurry solution producing a peak concentration of approximately 50 to 100 ppm 100% peracetic acid. For continuous dosing applications, apply 51.2 to 102 fl. oz. SaniDate® 12.0 to 1,000 gallons of process water, producing a peak concentration of 5 to 100 ppm 100% peracetic acid.

**COATINGS PRESERVATION** - SaniDate® 12.0 can be used as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper coatings. Add 12.8 to 89.6 fl. oz. of SaniDate® 12.0 solution to 1,000 gallons water. This will provide 100 to 700 ppm of SaniDate® 12.0, or 12 to 85 ppm 100% peracetic acid.

**TREATMENT OF DISPERSED PIGMENTS** - SaniDate® 12.0 can be used in the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and kieseguhr used in paint and paper production. Add 0.12 to 0.6 lb. of SaniDate® 12.0 to each 1,000 lbs. of fluid. This will provide 120 to 600 ppm of SaniDate® 12.0, or 15 to 70 ppm 100% peracetic acid.

**CONTROL OF ALGAL, FUNGAL, AND BACTERIAL GROWTH IN INDOOR, CLOSED LOOP, NON-POTABLE, NON-FOOD CONTACT WATER SYSTEMS**

**TREATMENT OF RAW AND PROCESS WATER** - (such as heat exchanger system water, boiler water, wet scrubber water) - SaniDate® 12.0 may be applied to water at the inlet of the water system or any other suitable point. Apply with either shock, intermittent, or continuous dosing. Shock dosing may be applied for a duration of 1 to 2 hours, as necessary, whereas intermittent dosing is applied for 2 to 15 minutes, 4 to 100 times per day. For either shock or intermittent dosing, apply 0.16 to 0.8 gallons SaniDate® 12.0 per 1,000 gallons of water producing a peak concentration of SaniDate® 12.0 of 160 ppm to 800 ppm during dosing. This is approximately equivalent to a peak dose of 20 to 100 ppm 100% peracetic acid. For continuous dosing applications, apply 1.3 to 38.4 fl. oz. SaniDate® 12.0 to 1,000

with COMMENTS  
in EPA Letter Dated

SaniDate® 12.0; EPA Reg. No. 70299-8

Label version (8) dated November 7, 2007

MASTER LABEL - Amendment to add new uses

Page 5 of 9

FEB 20 2008

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 70299-8



9/12

gallons of water, producing a peak concentration of 10 to 300 ppm SaniDate® 12.0. This is approximately equivalent to 1 to 35 ppm 100% peracetic acid.

**TREATMENT OF COOLING WATER SYSTEMS** - (such as cooling towers, evaporative condensers) Severely fouled systems should be cleaned before treatment. Discontinue use of chlorine or bromine products prior to using this product. SaniDate 5.0 Sanitizer should be added to the system directly and not mixed with other chemicals or additives prior to dosing. Other chemicals should be added separately. Check compatibility of SaniDate 5.0 Sanitizer with any other chemicals or additives prior to use. Contamination with certain chemicals could result in lack of efficacy. Add SaniDate® 12.0 at a point in the system where uniform mixing and even distribution will occur such as the cooling tower basin sump. Shock doses may be applied for 1 to 2 hours, as necessary, whereas intermittent doses are applied for 5 to 60 minutes 1 to 100 times per day. For either shock, intermittent or continuous dosing, apply 1.3 to 9.0 fl.oz. of SaniDate® 12.0 solution per 1,000 gallons of water. This will provide 10 to 70 ppm of SaniDate® 12.0, or 1 to 9 ppm of 100% peracetic acid. Repeat treatment as required to maintain control.

**CONTROL OF ALGAL, FUNGAL AND BACTERIAL GROWTH ON NON FOOD CONTACT GREENHOUSE WATERING SYSTEMS**

**TREATMENT OF GREENHOUSE SURFACES AND EQUIPMENT** - (such as glazing, plastic, pots, flats, trays, cutting tools, benches, work areas, walkways, floors, walls, fan blades, ~~ventilation ducts~~, watering systems, coolers, storage rooms, structures and equipment) - Clean surfaces before treatment. Sweep and remove all plant debris, and use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:600 of SaniDate® 12.0 for all non-porous surfaces that have been pre-cleaned with water. Apply solution with mop, sponge, power sprayer or fogger to thoroughly wet all surfaces. Cutting tools may be soaked to ensure complete coverage. Heavy growths of algae and fungi may have to be scrubbed off following application. Repeat treatment as required to maintain control.

**TREATMENT OF GREENHOUSE EVAPORATIVE COOLERS** - Treat contaminated surfaces with a dilution of 1:600 of SaniDate® 12.0. For maintenance, treat cooler water once a week with a dilution of 1:2,000 of SaniDate® 12.0 for every gallon of cooling water.

**TREATMENT OF GREENHOUSE IRRIGATION SYSTEMS** - (such as flooded floors, flooded benches, recycled water systems, drip trickle, capillary mats, sprinkler systems, humidification and misting systems) - Treat contaminated water with a dilution of 1:5,000 of SaniDate® 12.0. For maintenance, treat clean water with a dilution of 1:50,000 to 1:100,000 of SaniDate® 12.0 as needed.

**CHEMIGATION:**

**General Requirements -**

- 1) Apply this product only through a drip system or sprinkler system, including flood, and drip (trickle) irrigation systems.
- 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 other greenhouses.

ACCEPTED  
with COMMENTS  
in EPA Letter  
FEB 20 2008  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.

SaniDate® 12.0; EPA Reg. No. 70299-8  
Label version (8) dated November 7, 2007  
MASTER LABEL - Amendment to add new uses  
Page 6 of 9

70299-8

10/12

- 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 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.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

FEB 20 2008

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 70299-8

SaniDate® 12.0; EPA Reg. No. 70299-8  
Label version (8) dated November 7, 2007  
MASTER LABEL - Amendment to add new uses  
Page 7 of 9

11/12

- 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 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.
- 2) Determine the treatment rates as indicated in the directions for use and make proper dilutions.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

FEB 20 2008  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.  
70299-8

SaniDate® 12.0; EPA Reg. No. 70299-8  
Label version (8) dated November 7, 2007  
MASTER LABEL - Amendment to add new uses  
Page 8 of 9

12/12

- 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.
- 4) Do not apply SaniDate 12.0 in conjunction with any other pesticides or fertilizers; this has the potential to cause reduced performance of the product. Avoid application in this manner.

**STORAGE & DISPOSAL**

**DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL**

**STORAGE:** Store in original vented container in a dry location away from heat and out of direct sunlight. In case of fire involving product, use water. In case of large quantities of spilled material, dike with sand or earth. Dilute with large quantities of water.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, or public waters unless the components of this product are specifically identified and addressed in a NPDES permit. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage plant authority. For additional information, refer to the product Material Safety Data Sheet.

**CONTAINER DISPOSAL:** (Plastic Containers 30, and 55 gallon drums): Triple rinse (or equivalent) then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. (For 275 gallon totes) Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved state and local procedures.

ACCEPTED  
with COMMENTS  
to EPA Letter Dated

FEB 20 2008  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.

70299-8

Sold by:  
BioSafe Systems  
22 Meadow St.  
East Hartford, CT 06108

EPA Reg. No. 70299-8  
EPA Establishment No. 60156-IL-001

Lot No.: XXXX  
24 Hour Emergency (281) 479-2826  
For Transport Emergency call CHEMTREC (800) 424-9300

Net Contents: XX Gallons (XXlbs.)  
Weight per gallon: 9.26 lbs.  
Expiration: MM/DD/YY