

70299-8

08/11/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460

AUG 11 2010

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

BioSafe Systems
22 Meadow Street
East Hartford, CT 06108

Attention Donna Bishel
Technical Director

Subject SaniDate 12 0 Microbiocide
EPA Reg No 70299-8
Application and Letter Dated July 8, 2010

This will acknowledge receipt of your notification for the aforementioned product label, submitted under the provisions of Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 3© (9) Based on a review of the submitted material, the following apply

- Change of sentence on Page 3 of the Master Label to read "Use Sanidate 12 0 to suppress / control algae, bacteria, and fungi 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 "
- Correct typographical error on page 6 of the Master Label to read 6 4 – 25 6 fl oz

The Notification is in compliance with PR Notice 98-10 and is acceptable This information has been made a part of your file

If you have any questions concerning this letter, please contact Abigail Downs at (703) 305-5259

Sincerely,

A handwritten signature in cursive script that reads "M Swindell".

Marshall Swindell
Product Manager (33)
Regulatory Management Branch I
Antimicrobials Division (7510CP)

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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 70299-8	2 EPA Product Manager Marshall Swindell	3 Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4 Company/Product (Name) SaniDate 12 0 Microbiocide	PM# 33/AD	
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 clarify text 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	If "Yes" Unit Packaging wgt		<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		No per container	If "Yes" Package wgt	No per container	
3 Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4 Size(s) Retail Container 30 55 275 gal containers		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 <input type="checkbox"/> Paper glued <input type="checkbox"/> 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	
Certification 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 (Stamped)
2 Signature 	3 Title Technical Director		
4 Typed Name Donna Bishel / dbishel@biosafesystems.com	5 Date July 8, 2010		

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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

July 8, 2010

**RE SaniDate 12 0 Microbiocide
EPA Registration No 70299-8**

Notification to clarify text

Dear Mr Swindell

Enclosed with this letter you will find the following in support of a notification to clarify text 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

- Page 3 of the Master Label – **TREATMENT OF AGRICULTURAL IRRIGATION SYSTEMS** – Change the following sentence ' Use SaniDate® 12 0 to suppress / control algae, bacteria, and 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 Sentence will now read 'Use SaniDate® 12 0 to suppress / control algae bacteria and fungi 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'
- Page 6 of the Master Label – **TREATMENT OF GREENHOUSE IRRIGATION SYSTEMS AND WATER** – Correction of typographical error - Change the rate of 6 4 0- 25 6 fl oz to 6 4 - 25 6 fl oz

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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

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

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 St East Hartford CT 06108 (888) 273-3088

EPA Registration No 70299-8

Batch Code _____

EPA Establishment No 067441-IL-001 68660-TX-001

Net Contents (30.55 275 gallons)

SaniDate® 12.0, EPA Reg No 70299-8

Red lined Label version (11) dated July 8, 2010

Notification to update label language

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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
- Treatment of fruit and vegetable processing waters

The main areas of use include

- Fruit and vegetable processing facilities
- Commercial industrial agricultural and horticultural facilities

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

CONTROL OF SPOILAGE AND DECAY CAUSING ORGANISMS IN PROCESS WATERS

TREATMENT OF FRUIT AND VEGETABLE PROCESSING WATERS

Use SaniDate 12 0 for the treatment of waters used in the processing of raw fruits and vegetables Mix SaniDate 12 0 with water either batch-wise or continuously at a rate of 25 6 to 89 6 fl oz of SaniDate® 12 0 solution to 1 000 gallons water This will provide 200 to 700 ppm of SaniDate® 12 0 or 24 to 85 ppm 100% peracetic acid in the use solution The fruits and vegetables can be sprayed or submerged in the resulting solution for a minimum contact time of 45 seconds followed by adequate draining At this use dilution SaniDate 12 0 will control the growth of spoilage and decay causing non public health organisms in process waters and on the surface of fresh cut or post harvest fruits and vegetables This product is not intended for control of any public health organisms on fruit and vegetable surfaces

SaniDate® 12 0 may also be used to control the growth of spoilage and decay causing bacterial and fungal diseases on fruits and vegetables in post harvest storage For post harvest applications fruits and vegetables can be sprayed or submerged in the resulting solution for a minimum contact time of 30 seconds followed by adequate draining

Note May cause bleaching of treated surfaces, test commodity if unsure

CONTROL OF ALGAL, FUNGAL, AND SLIME-FORMING BACTERIAL GROWTH IN AGRICULTURAL IRRIGATION SYSTEMS AND WATER

TREATMENT OF AGRICULTURAL IRRIGATION WATER AND DRAINAGE DITCHES- Use SaniDate®

12 0 to treat water to suppress / control algae and plant pathogenic bacteria and fungi/oomycetes in agricultural irrigation and drainage water and ditches To target specific pathogens apply per 1 000 gallons of water bacteria 3 2 – 25 6 fl oz (1 5 000 – 1 40 000 dilution) algae 6 4 – 25 6 fl oz (1 5 000 – 1 20 000 dilution) or fungi/oomycetes 8 53 – 25 6 fl oz (1 5 000 – 1 15 000 dilution) 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® 12 0 as needed to control and prevent algae growth apply more often in times of higher water temperatures

TREATMENT OF AGRICULTURAL IRRIGATION SYSTEMS - Use SaniDate® 12 0 to suppress / control algae, bacteria and 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 1000 -1 5 000 For shock treatment of irrigation lines use a dilution rate of 1 1000-5 000 Allow solution to remain in lines for 12 48 hours Flush by opening flush valves or laterals to avoid clogging emitters For maintenance treat clean water with a dilution of 1 50 000 to 1 100 000 of SaniDate® 12 0 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

TREATMENT OF FOLIAR AND SOILBORNE PLANT PATHOGENS/DISEASES- Use SaniDate® 12 0 as a preventative treatment for suppressing plant pathogens/diseases *Alternaria* – *Anthraxnose* – *Aphanomyces* – Black Spot - *Botrytis* (Grey Mold) - *Plasmopara/Peronospora* (Downy Mildew) – *Erwinia* (Soft Rot) *Fusarium* (Root Rot) - Leaf Spot - *Phytophthora* (Blights Rots) - *Pseudomonas* - *Pythium* - *Rhizoctonia* - Rust - Scab - Smut - *Thielaviopsis* – *Uncinula* (Powdery Mildew) – *Xanthomonas* - Wilts & Blights - *Ralstonia solanacearum* (Brown Rot Bacterial Wilt) - *Sclerotinia sclerotiorum* (White Mold) Use SaniDate® 12 0 as a treatment through the irrigation system or as a soil treatment at the time of seeding or transplanting as well as a periodic treatment throughout the plant's life Multiple applications can be made as there is no mutational resistance with this product

DRENCH/CHEMIGATION - This product is effective as a soil drench for controlling soil borne plant pathogens Apply SaniDate® 12 0 at a rate of 1 60 000 Apply in sufficient water for sufficient duration to distribute the application evenly to the treated area Apply to moderately moist soils Follow use directions for Chemigation Do not apply this product through any irrigation system unless the Chemigation Directions for Use are followed

CONTROL OF ALGAL, FUNGAL, AND ODOR CAUSING 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

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 ODOR CAUSING 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 5 12 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 5 12 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 kiesegruhr 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 ODOR CAUSING 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

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® 12 0 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® 12 0 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 SLIME-FORMING BACTERIAL GROWTH IN INDUSTRIAL WATER

INDUSTRIAL WASTE TREATMENT- Use SaniDate® 12 0 to control algae bacteria and fungi in industrial wastewater treatment and sewage systems 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 Do not discharge treated effluent without notifying local sewage treatment plant authorities

OIL FIELD APPLICATIONS- SaniDate® 12 0 may be used as an algacide fungicide and or a slimicide for oilfield applications It will control biofilm deposits on pumps pipe work heat exchangers filters and all down hole applications associated with oilfield systems Add a sufficient amount of SaniDate® 12 0 directly to the well fluid or fracturing fluid to achieve a residual level of 50-200 ppm of peracetic acid or use 50 fl ounces per 1000 gallons or one gallon of SaniDate® 12 0 per 500 gallons of fluid

OIL RECOVERY WELL FLUIDS, FRACTURING FLUIDS OR PIPELINE CLEANING OPERATIONS- When used as directed this product will control the growth of bacteria such as anaerobic sulfite forming bacteria and aerobic slime forming bacteria which impair the efficacy of well fluids and fracturing fluids Add a sufficient amount of SaniDate® 12 0 directly to the well fluid or fracturing fluid to achieve a residual level of 50-200 ppm of peracetic acid or use 50 fl ounces per 1000 gallons or one gallon of SaniDate® 12 0 per 500 gallons of fluid SaniDate® 12 0 may be added and premixed with the well fluid or fracturing fluid prior to the oil field operation or maybe added directly to the blender during operations Be sure rapid mixing of the treated water is achieved

CONTROL OF ALGAL, FUNGAL AND ODOR CAUSING 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 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 Allow surfaces to stay wet with solution for a minimum of five (5) minutes

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 Allow surfaces to stay wet with solution for a minimum of five (5) minutes 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 AND WATER - (such as flooded floors flooded benches recycled water systems drip trickle capillary mats sprinkler systems humidification and misting systems) For shock treatment of irrigation lines use a dilution rate of 1 5 000 oz per gallon of water Allow solution to remain in lines for 12-48 hours Flush by opening flush valves or laterals to avoid clogging emitters To target specific pathogens apply per 1 000 gallons of water bacteria- 3 2 – 25 6 fl oz (1 5 000 – 1 40 000 dilution) algae- 6 4 fl oz (1 5 000 – 1 20 000 dilution) or fungi/oomycetes- 8 3 – 25 6 fl oz (1 5 000 – 1 15 000 dilution) 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 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 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 fitted 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
- 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 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

Pesticide Disposal Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility Open dumping is prohibited If wastes cannot be disposed of 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 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 ¼ 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 Offer for recycling if available

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 must 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 TO THE EXTENT CONSISTENT WITH APPLICABLE LAW 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

To the extent consistent with applicable law 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 TO THE EXTENT CONSISTENT WITH APPLICABLE LAW 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

- Microbiocide
- Easy to use
- Activated Peroxygen chemistry
- Contains no phosphates
- Deodorizes
- Leaves no residue
- Scent free
- Chlorine free
- Treats and controls mold and mildew
- Controls algae
- Control algal and fungal growth
- Controls odor causing bacteria
- Controls slime forming bacteria
- Control plant pathogenic organisms
- Controls spoilage and decay causing organisms in fruit and vegetable processing waters
- Controls odors
- SaniDate 12 0 is an economical concentrate that can be used with a mop and bucket trigger spray sponge or by soaking
- SaniDate 12 0 will not leave a grit or soap scum
- When used as directed this product will deodorize surfaces in places where bacterial growth can cause malodors
- SaniDate 12 0 inhibits bacterial growth on moist surfaces and deodorizes by controlling microorganisms that cause offensive odors *Not for use in California*
- SaniDate 12 0 inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors
- SaniDate 12 0 is a concentrate formulation designed for use in commercial institutional and industrial operations
- SaniDate 12 0 controls the growth of odor-causing and slime forming bacteria
- SaniDate 12 0 is formulated to effectively eliminate offensive odors caused by mold and mildew
- SaniDate 12 0 can be used in agricultural irrigation water
- SaniDate 12 0 can be used in greenhouse irrigation water
- Use SaniDate 12 0 in cooling water systems
- For control of algal fungal slime forming bacterial growth
- Use SaniDate 12 0 on greenhouse surfaces
- 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
- Industrial Waste Treatment
- Oil Field Treatments
- Controls foliar plant pathogens
- Controls soil-borne plant pathogens