When other companies fall short, BioSafe Systems has the solution. We provide products and equipment for all aspects of the produce industry supply chain, from crop production and harvest to storage and transportation. Our products can even help restaurants and retail stores maintain quality and food safety.

BioSafe Systems
POST HARVEST & FOOD SAFETY SOLUTIONS
A COMPLETE FOOD SAFETY PROGRAM
INNOVATIVE SOLUTIONS FOR YOUR WHOLE OPERATION

BioSafe Systems’ line offers a more complete food safety program that addresses every aspect of your operation.

Maximize profits and reduce losses by destroying spoilage microorganisms that affect the quality and shelf life of produce. Beyond preventing decay, BioSafe Systems even offers products that eliminate human health pathogens such as *E. coli* and *Salmonella*.

Our unique activated peroxygen products, coupled with our methods and equipment, allow the modern farmer, processor, storage manager, transporter, and retailer a complete line of disease control and sanitation products that will increase food safety and food quality.
APC CHEMISTRY: Achieve broad spectrum control with the power of Activated Peroxygen Chemistry. We formulate our products with unique buffers and stabilizers to protect produce. Our chemicals are easy to apply, and are versatile so they can be used for multiple applications. With a wide range of products, we offer economical rates for any operation.

In addition to being powerful and effective solutions, all BioSafe Systems products are environmentally responsible and EPA registered, with several products that are OMRI listed.

As one of the most potent oxidizers available, APC offers multiple advantages. The key to disinfection and sanitation is mixing the volatile hydrogen peroxide with peroxyacetic acid, proprietary stabilizers, and buffers to create an advanced compound that oxidizes pathogens.

- Kills on Contact for Immediate Results
- Effective on Bacteria, Fungi, Yeast, & Mold
- Controls E. Coli, Salmonella, and Listeria*
- No Mutational Resistance
- Exempt from Pesticide Tolerances
- No Environmental Impact

* control achieved with specific concentrations
TRANSITIONING FROM THE FIELD
SAFEGUARD YOUR FRUITS & VEGETABLES BEFORE THEY GET OUT OF THE FIELD

OXIDATE provides a broad spectrum of control for growing fruits and vegetables. Don’t bring disease from the fields into the packinghouse. One final pre-harvest spray can protect from spoilage. OxiDate kills bacteria, fungi, and mold, leaving only healthy produce behind.

- Apply at Any Stage of Growth (Includes Day of Harvest)
- No Mutational Resistance
- NOP Compliant and OMRI Listed for Organic Use
- Zero Hour REI (4 Hours in California)
- Exempt from Pesticide Tolerances
- May Be Tank Mixed

PRE-HARVEST SPRAY APPLICATIONS
Treat the fruit surface directly. With complete coverage during a pre-harvest spray, disease is killed on contact.

FIELD EQUIPMENT SANITIZATION APPLICATIONS
OxiDate sanitizes harvest equipment such as pickers, trailers, trucks (including truck body parts and tires), bins, packing crates, ladders, power tools, hand tools, gloves, rubber boots, and pruning shears to end cross contamination from the field to the processing facility.

Available in 2.5, 5, 30, 55, and 275 gallon containers.
COMPREHENSIVE LABELS: Our products are compatible with a large variety of fruits and vegetables. For a complete listing of crops and rates refer to our specimen labels.

- Tomatoes
- Peppers
- Citrus Fruits
- Berries
- Onions, Garlic, and Shallots
- Root Vegetables
- Tuber Vegetables
- Leafy Vegetables
- Broccoli, Cabbage, and Cauliflower
- Legumes
- Cucurbits
- Pome Fruits
- Stone Fruits
- Tropical Fruits
INCREASING FOOD SAFETY
ELIMINATE SPOILAGE & FOOD SAFETY CONCERNS WHILE INCREASING FOOD QUALITY

SANIDATE 5.0 Sanitizer/Disinfectant treats fresh-cut and post harvest fruits and vegetables, processing waters, and hard surfaces. It kills bacteria, algae, and fungi on contact, extends shelf life, and promotes quality produce.

Most food-borne illnesses in America are caused by *E. coli*, *Listeria monocytogenes*, and *Salmonella*. SaniDate 5.0 has been proven to reduce 99.9% of these human health pathogens.

- Reduces Spoilage & Extends Shelf-Life
- Promotes Food Quality
- Multiple Applications
- No Residue and No Use Restrictions

PRODUCT SURFACE APPLICATIONS
A key part of the produce quality program is surface treatment of the produce itself through a dump tank and/or a line spray application. Apply SaniDate 5.0 as a dip or spray wash to control the growth of microorganisms that may cause decay and spoilage on raw, post-harvest and fresh cut fruits and vegetables, and on processed fruit and vegetable surfaces.

HARD SURFACE APPLICATIONS
Approved for use on food contact surfaces and equipment, SaniDate 5.0 stops the spread of disease from contact with: Tanks, Lines Surfaces, Flume Surfaces, Processing Equipment, Saws, Conveyors, Peelers, Slicers, Collators, Food Preparation Surfaces, Pipelines, Vats, Fillers, Evaporators, General Surfaces, Lines, Bins, Brushes, Rollers, Handling Equipment, and Storage Rooms.

Available in 2.5, 5, 30, 55, and 275 gallon containers.
SANIDATE READY-TO-USE is a pre-mixed spray formula designed for enhancing food safety efforts in packinghouses, restaurants, and post harvest operations. SaniDate RTU is a professional strength formula that can be used on both food contact and non-food contact hard surfaces.

SaniDate RTU is effective against gram-positive and gram-negative bacteria (vegetative forms) such as *E. coli*, *Staphylococcus aureus*, *Salmonella choleraesuis*, and *Pseudomonas aeruginosa*.

- Ready-to-Use Formula with Green Chemistry
- Spray and Done – No Rinse Required
- Kills 99.9% of Bacteria
- No PPE required - Promotes Worker Convenience
- Chlorine Free – Will Not Bleach
- No Residue Left Behind

Available in 32 fl. oz. containers.
Contaminated water means reduced-quality produce. BioSafe Systems’ products are alternatives to chlorinated products such as gaseous chlorine, sodium hypochlorite, calcium hypochlorite, and chlorine dioxide. Chlorine products are difficult to use, dangerous to handle, and create harmful byproducts that are believed to be carcinogenic.

BioSafe Systems’ products address each of chlorine’s limitations. (Process water treated with SaniDate 12.0, a chlorine alternative, delivers higher quality produce that lasts longer in storage and transportation.) Reduce pathogens and other microbial counts found in process and wash waters with regular SaniDate 12.0 treatments.

### IMPROVING WATER QUALITY
**DELIVER HIGHER QUALITY PRODUCE THAT LASTS LONGER IN STORAGE & TRANSPORTATION**

### ACTIVATED PEROXYGEN CHEMISTRY VS CHLORINE

<table>
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<th>CHLORINE</th>
<th>APC</th>
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<tr>
<td>Temperature Sensitive: Breaks Down Easily</td>
<td>Efficacy Over Higher Organic Loads</td>
</tr>
<tr>
<td>pH Sensitive: Not Proven Under Alkaline Conditions</td>
<td>Efficacy Over Broader pH Range than Chlorine</td>
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<tr>
<td>Offensive Odors and Off-gassing Concerns</td>
<td>Product Will Not Off-Gas</td>
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SANIDATE 12.0 is a key product when producing quality fruits and vegetables. Used to control microorganisms, SaniDate 12.0 is approved to treat irrigation water and process waters for fresh cut, post harvest, or processed fruits and vegetables.

With an extremely powerful formula, SaniDate 12.0 remains economical even when treating large volumes of water. With high dilution rates, costs and disease are kept under control.

- Cost-Effective
- Reduces Biofilm Formation
- High Level MicroBiocide Provides Complete Control

IRRIGATION WATER APPLICATIONS
SaniDate 12.0 guarantees clean irrigation water will be delivered to growing fruits and vegetables. Using clean water in the growing process helps control disease from the start. Eliminate disease at the source, before it reaches the produce.

WASH AND PROCESS WATER APPLICATIONS
Use SaniDate 12.0 in all post harvest processing waters including hydrocoolers or flumes. SaniDate 12.0 is an extremely valuable tool for processors who utilize recycled water.

Available in 30, 55, and 275 gallon containers.
STATE-OF-THE-ART EQUIPMENT

INNOVATIVE EQUIPMENT & SOLUTIONS FOR APPLYING BIOSAFE SYSTEMS’ PRODUCTS

SMARTFOG™ DRY HUMIDIFICATION SYSTEM Achieve disease control and humidification in one step. Applying a SaniDate 5.0 dry fog through SmartFog™ nozzles assures a longer shelf life and proper humidity levels. Use in ripening rooms, transportation, storages, cold storages or on processing lines to promote healthy produce and reduce bruising and brown spots, as well.

FOGTUNNEL PRODUCE TREATMENT SYSTEM BioSafe Systems offers the patent-pending FogTunnel Treatment System. The FogTunnel is a stainless steel enclosure that may be retrofitted on any existing conveyor system or custom manufactured. The contained structure helps limit worker exposure. The FogTunnel contains the SmartFog system that produces a saturated environment of activated peroxygen to help treat produce. The FogTunnel is capable of consistently producing a 2-5 log reduction depending on desired target concentration treatment product.

PAA MONITORING: PROMINENT DULCOMETER This integrated system is capable of automatically maintaining pre-determined levels of active ingredient by monitoring, dosing and recording exact amounts of any BioSafe Systems’ activated peroxygen products. It measures PAA from 0-200 ppm and provides real time activated peroxygen measurements. The system is comprised of a control panel, probe, and dosing pump.

SCAN-NOW DIGITAL TEST STRIP READER (With Color Recognition Software) Scan-NOW monitors the amount of peracetic acid in water and solves the problem of correctly reading test strips. Using specially prepared test strips, Scan-NOW electronically records the exact amount of active ingredient of our liquid activated peroxygen products. Through its computer program, the Scan-NOW can also make dosage recommendations.

ADDITIONAL EQUIPMENT AVAILABLE

- BIOFOAMER Self-contained system for sanitizing vertical and porous surfaces
- BIOMAT Shoe sanitation in entryways to storage facilities and other sensitive areas
- DOSATRON Chemical proportioner for line spray applications
ACHIEVE BROAD SPECTRUM CONTROL WITH OXIDATE, SANIDATE 5.0, SANIDATE RTU, AND SANIDATE 12.0.

In addition to being powerful and effective solutions, all BioSafe Systems products are environmentally responsible and EPA registered, with several products that are OMRI listed for organic production.

For more information, contact BioSafe Systems toll-free at 1.888.273.3088 or visit www.biosafesystems.com.
BioSafe Systems
POST HARVEST & FOOD SAFETY SOLUTIONS

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