

FRESHFX[®] PE1500

HARD SURFACE DISINFECTANT & SANITIZER

- Effective against *Staphylococcus aureus*, *Escherichia coli*, *Pseudomonas aeruginosa*, *Salmonella choleraesuis*
- Product of choice for sanitization of hard non-porous surfaces, including food contact surfaces
- Effective disinfectant and cleaning agent for floors, walls, chairs, bathroom fixtures. a variety of surfaces
- Disinfect poultry processing plants, truck, coops and crates, as well as animal housing facilities
- For Treatment of Raw, Unprocessed Fruit and Vegetable Surfaces

FreshFx[®] PE1500 is a USEPA Registered, 15% solution of peroxyacetic acid that can be used to effectively sanitize previously cleaned non-porous food contact surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO₃. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

SANITIZING FOOD CONTACT SURFACES

Effective against *Staphylococcus aureus* and *Escherichia coli*.

Prior to sanitizing, remove gross food particles, and then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce FreshFx PE1500 dissolved in 5 gallons of water (0.053% v/v concentration). This will provide 88 ppm of peroxyacetic acid. At this dilution FreshFx PE1500 is effective against

Hard Surface Disinfection

FreshFx PE1500 disinfects as it cleans in one operation.

FreshFx PE1500 can be used to disinfect floors, walls and other hard nonporous surfaces such as tables, chairs, countertops, bathroom fixtures, sinks, bed frames, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

Areas of use in hospitals: FreshFx PE1500 may be used for surgical and obstetrical suites; housekeeping services; physical therapy departments; nursing services; autopsy facilities. Also, use FreshFx PE1500 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, dietary areas, office buildings, recreational facilities, retail and wholesale establishments.

This product is not to be used as a terminal sterilant / high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

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Combination Disinfection and Cleaning

FreshFx® PEI500 is effective against *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, *Trichophyton mentagrophytes*, and *Escherichia coli* O157:H7 at 0.08% (0.5 fl. oz./5 gal.) in hard water (400 ppm as CaCO₃) and 5% fetal bovine serum on hard nonporous surfaces. For heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, and then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.

FreshFx PEI500 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, FreshFx PEI500 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel runs, cages, and feeding and watering equipment. In addition FreshFx PEI500 will deodorize those areas which are generally hard to keep smelling fresh such as garbage storage areas, empty garbage bins and cans, and any other areas which are prone to odors caused by microorganisms.

All treated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

Poultry Hatchery Disinfection

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering ap-

pliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of FreshFx PEI500 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, drinking fountains with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

Disinfection And Deodorizing of Animal Housing Facilities (Barns, Kennels, Hutches, etc.)

Do not use in milking stalls, milking parlors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz. / 5 gal.) solution of FreshFx PEI500 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, drinking fountains with soap or detergent, and rinse with potable water before reuse.

For Sanitizing of Hatching Eggs

Prepare a solution of FreshFx PEI500 by diluting 0.33 fluid ounce FreshFx PEI500 with 5 gallons of water. As eggs are gathered or prior to setting, apply solution as a coarse spray so as to lightly wet all shell surfaces.

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NOTE: This product at its use dilution is compatible with certain stainless steel and all aluminum surfaces. If product is intended to be used on any other surface, it is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.

For Treatment of Raw, Unprocessed Fruit and Vegetable Surfaces

FreshFx® PEI500 can be applied as a dip or spray to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the washing process. This product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip-tank, on the brushes or elsewhere in the washing process prior to, simultaneously with or after detergent wash.

- 1). Prepare treating solution by diluting 1 fluid ounces per 16 gallons of potable water. This will provide 85 ppm peroxyacetic acid and 125 ppm hydrogen peroxide.
- 2). Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a contact time of at least 45 seconds.
- 3). The treated produce can be drain dried without a potable water rinse.
- 4). Do not reuse solution after treatment.

For the Treatment of Processed Fruits and Vegetables and Process Waters to Control Growth of non-public health microorganisms that can cause spoilage

- 1). Prepare treating solution by diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.
- 2). Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use com-

- plies with the requirements of 21 CFR 173.315 (a) 5.
- 3). The treated produce can be drain dried without a potable water rinse.
- 4). Do not reuse solution after treatment.

Typical Product Specifications:

Parameter	Specifications
% Active	15%
Specific Gravity (@20°C)	1.15 g/cm ³
pH	<0.1
Flash Point (°C) by closed cup	79°C (174°F)
Color	Clear, colorless liquid
Odor	Intense, pungent, vinegar odor
Oxidizing properties	Oxidizing
Boiling point	>212° F
Water solubility	Soluble

Monitoring of Active Ingredient:

Typically, peroxyacetic acid (PAA) active levels are monitored by one of several methods: 1) Use of Instant Test Strips or 2) Use of a titration test kit. Test strips with a sensitivity range of 0 –100 ppm are available from Industrial Test Systems, Inc., Part No. 480065, (50 strips), www.sensafe.com, or PH(803) 329-9712. These strips will provide a quick methodology to roughly determine PAA residuals, but are limited in both range and sensitivity.

Synergy recommends that a PAA titration kit also be utilized to verify residuals. A very reliable and easy to use kit is available from LaMotte Company, No. 7191-01, PH(800)344-3100 or visit www.lamotte.com. This kit is capable of testing for residual PAA levels >100 ppm without having to employ a dilution. Typically, the strips can be used as a quick quality assurance (QA) method to verify that the PAA is in the targeted concentration, and the titration method is

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used to either verify the results indicated through the use of the test strips or to determine higher PAA treatment concentrations. Consult your Synergy Technologies representative regarding any questions that you may have in this regard.



General Safety and Handling Information:

When handling the concentrated product and or use dilutions, be sure to use proper personal protective equipment (PPE), including chemical resistant gloves, goggles and/or a face shield, and clothing. Consult the product Material Safety Data Sheet (MSDS) for specific handling and safety information, including environmental and disposal of container information.

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