VigorOx® 15 F&V

EPA Registration No. 65402-3
EPA Est. No. 65402-NY-001

ACTIVE INGREDIENTS:
Peroxyacetic Acid .................................................. 15%
Hydrogen Peroxide .................................................. 10%
OTHER INGREDIENTS: ................................................. 75%
TOTAL: .............................................................. 100%

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 the label, find someone to explain it to you in detail.)

VigorOx® 15 F&V is for institutional/industrial sanitizing of previously cleaned non-porous food contact surfaces in:
- Dairies, Wineries, Breweries and Beverage Plants
- Commercial Food Processing Utensils
- Plastic, Glass and Metal Bottles (rinse)

For Organic Production, VigorOx® 15 F&V may be used in rinse or wash water on products labeled as organic in food processing facilities on commodities that will be further processed. For use as a sanitizer on food contact surfaces in contact with products labeled as organic.

VigorOx® 15 F&V is for use as a coarse spray for surfaces to be sanitized.
VigorOx® 15 F&V is for sanitizing surfaces such as packagingconveyers and harvesting equipment and containers. It is effective against plant pathogens: Xanthomonas campestris (axonopodis) pathovars citrulmos (citrus canker surrogate).
VigorOx® 15 F&V is for use in the disinfection of hard surfaces and as an antimicrobial rinse of Precleaned or New Returnable or Non-Returnable Containers.

VigorOx® 15 F&V can be used for reducing pathogenic foodborne bacteria in processing waters for fruits and vegetables.
VigorOx® 15 F&V is for use as a dip or spray wash, or fog to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest and fresh cut, fruits and vegetables.
VigorOx® 15 F&V is for use in process water that contacts raw, post-harvest, fresh-cut and processed fruits and vegetables.
VigorOx® 15 F&V may be used to clean poultry, swine, livestock water systems when the system is not in use.
VigorOx® 15 F&V may be used to clean poultry, swine, livestock watering operating systems (when animals are present).
VigorOx® 15 F&V may be used for the control of algal and slime forming bacterial growth in livestock water.
VigorOx® 15 F&V is for use in agricultural water and irrigation systems.
VigorOx® 15 F&V is for sanitizing hard, non-porous, non-edible outside surfaces of airtight, sealed packages containing food or non-food products.
VigorOx® 15 F&V may be used for the non-pestical purpose of cleaning room surfaces by fogging.

First Aid
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If in eyes
- 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
- 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
- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

If swallowed
- 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 a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Precautionary Statements
Hazards to Humans and Domestic Animals
DANGER
Corrosive, causes eye and skin damage. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses), chemical resistant apron or coveralls and chemical resistant gloves when handling concentrate. Wash thoroughly with soap and water after handling. Do not breathe vapor or spray mist. Do not enter an enclosed area without proper respiratory protection.

Physical or Chemical Hazards
Strong oxidizing agent. Mix only with water. VigorOx® 15 F&V is not combustible; however, at temperatures exceeding 156°F, decomposition occurs, releasing oxygen. The oxygen released could initiate or promote combustion of other materials.

Personal Protective Equipment (PPE)
Handlers who may be exposed to the undiluted product through mixing, loading, application, or other tasks must wear: coveralls over long-sleeved shirt and long pants, rubber gloves, chemical resistant footwear plus socks, and protective eyewear (goggles or face shield).

Handlers who may be exposed to the diluted product during application or other tasks must wear: long-sleeved shirt, long pants, socks, and shoes.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not reuse them. Follow the manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Manufactured by:
PeroxyChem, LLC
2005 Market St Ste 3200
Philadelphia PA 19103-7014
Net Contents: 495 lbs (224 kg)

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User Safety Recommendations
Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards
This pesticide is toxic to birds, mammals, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Any solution released from the system should be diluted with water and tested for residuals to ensure that there is less than 3 ppm peroxygen remaining.

STORAGE AND DISPOSAL

STORAGE: NEVER RETURN VigorOx® 15 F&V TO THE ORIGINAL CONTAINER AFTER IT HAS BEEN REMOVED. Avoid all contaminants, especially dirt, caustic, reducing agents, and metals. Contamination and impurities will reduce shelf life and can induce decomposition. In case of decomposition, isolate container, douse container with cool water and dilute with large volumes of water.

Avoid damage to containers. Keep container closed at all times when not in use. Keep container out of direct sunlight. To maintain product quality, store at temperatures below 86°F. Do not store on wooden pallets.

Procedure for Leak or Spill
Stop leak if this can be done without risk. Shut off ignition sources; no flames, smoking, flares, or spark producing tools. Keep combustible and organic materials away. Flush spilled material with large quantities of water. Undiluted material should not enter confined spaces.

DISPOSAL
Pesticide Disposal
If material has been spilled, an acceptable method of disposal is to dilute with at least 20 volumes of water followed by discharge into suitable treatment system in accordance with all local, state, and Federal environmental laws, rules, regulations, standards, and other requirements. Because acceptable methods of disposal may vary by location, regulatory agencies should be contacted prior to disposal.

VigorOx® 15 F&V which is to be discarded should be disposed of as hazardous waste after contacting the appropriate local, state, or Federal agency to determine proper procedures.

Container Disposal
Nonrefillable containers greater than or equal to 5 gallons. Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. 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. Turn the container over onto its other 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. Empty drums are not returnable to PeroxyChem, LLC unless special arrangements have been made. Dispose of drums in accordance with local, state, and Federal regulations.

All Refillable containers. Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Return to PeroxyChem, LLC for reuse.

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.
Sanitization of Non-Porous Food Contact Surfaces
For use in circulation cleaning and institutional/industrial sanitizing of previously cleaned non-porous food contact surfaces and equipment, such as pipelines, tanks, vats, fillers, evaporators, pasteurizers, and aseptic equipment in:
- Dairies, Wineries, Breweries and Beverage Plants
- Food Processing/Packing Plants, and
- Final Sanitizing Bottle Rinse

Pathogenic Organisms
VigorOx® 15 F&V is an effective sanitizer against Staphylococcus aureus, Escherichia coli, Listeria monocytogenes and Salmonella typhimurium.

Clean equipment immediately after use:
1. Remove gross particulate matter with a warm water flush.
2. Wash equipment with detergent or cleaning solution.
3. Rinse equipment with potable water.
4. Prepare VigorOx® 15 F&V solution by adding 0.31 to 0.45 fluid ounces to 5 gallons potable water. This provides 85 to 123 ppm peroxyacetic acid and 57 to 82 ppm of hydrogen peroxide.
5. If sanitizing against Listeria monocytogenes use 0.4 to 0.45 fluid ounces (109 to 123 ppm peroxyacetic acid and 73 to 82 ppm hydrogen peroxide) of product to 5 gallons of potable water.
6. Fill closed systems with diluted sanitizer solution for a contact time of one (1) minute.
7. For open or not completely closed systems, use a coarse spray, mop/wipe or flood technique to apply the solution to the surface for a contact time of one (1) minute.
8. Allow surfaces to drain thoroughly before resuming operation.

Non-Pathogenic Spoilage Organisms
VigorOx® 15 F&V is an effective sanitizer against non-pathogenic spoilage organisms: yeasts, molds.

Clean equipment immediately after use:
1. Remove gross particulate matter with a warm water flush.
2. Wash equipment with detergent or cleaning solution.
3. Rinse equipment with potable water.
4. To control non-pathogenic organisms, a rate of up to 1.8 fluid ounces to 5 gallons potable water may be used. This will provide 500 ppm peroxyacetic acid and 325 ppm hydrogen peroxide.
5. Fill closed systems with diluted sanitizer solution for a contact time of one (1) minute or more.
6. For open or not completely closed systems, use a coarse spray, mop/wipe or flood technique to apply the solution to the surface for a contact time of one (1) minute or more.
7. Allow surfaces to drain thoroughly before resuming operation.

Sanitizing Hard, Non-Porous, Non-Edible Surfaces of Airtight, Sealed Packages Containing Food or Non-Food Products
VigorOx® 15 F&V may be used as a final sanitizing rinse for hard, non-porous non-edible surfaces of airtight, sealed packages containing food or non-food products at a dilution of 0.31-1.83 fluid ounces per 5 gallons of potable water. This provides 85-500 ppm peroxyacetic acid. The treated hard, nonporous non-edible packaging, such as food wraps and meat casings must be removed and discarded before packaged food products are further processed or consumed. All surfaces must be exposed to the sanitizing solution for at least one (1) minute. Drain thoroughly. No rinse necessary. This is not to be used on porous surfaces.

Sanitizing Food Processing Utensils
VigorOx® 15 F&V is an effective sanitizer against Staphylococcus aureus, Escherichia coli, Listeria monocytogenes and Salmonella typhimurium in commercial food processing facilities. This product is not for use in cafeteria settings.
1. Scrape/prewash utensils whenever possible.
2. Wash all items with a detergent.
3. Rinse thoroughly with potable water.
4. Prepare VigorOx® 15 F&V solution as follows: Add 0.31 to 0.45 fluid ounces of the product to 5 gallons of potable water. This will provide 85 to 123 ppm peroxyacetic acid and 57 to 82 ppm of hydrogen peroxide.
5. Immerse all items for at least one (1) minute or for a longer contact time if specified by the local governing sanitizing code.
6. If sanitizing against Listeria monocytogenes use 0.4 to 0.45 fluid ounces (109 to 123 ppm peroxyacetic acid and 73 to 82 ppm hydrogen peroxide) of product to 5 gallons of potable water.
7. Place all sanitized Items on a rack or drainboard to drain adequately. Air dry if items will not be reused immediately.

Final Sanitizing Bottle Rinse
VigorOx® 15 F&V may be used as a final sanitizing rinse for plastic, glass or metal returable and non-returable bottles/cans.
1. Wash bottles with detergent or cleaning solution and rinse with potable water.
2. Rinse bottles/cans with a solution prepared by mixing 0.31 to 0.45 fluid ounces of VigorOx® 15 F&V to 5 gallons of potable water. This provides 85 to 123 ppm peroxyacetic acid and 57 to 82 ppm of hydrogen peroxide. Allow to drain dry.

Sanitization of Conveyors, Peelers, Slicers, and Saws for Meat, Poultry, Seafood, Fruits, and Vegetables
VigorOx® 15 F&V is an effective sanitizer against Staphylococcus aureus, Escherichia coli, Salmonella typhimurium, and Listeria monocytogenes.
For use in the washing, rinsing and sanitizing of conveyor equipment, peelers, collaborators, slicers, saws etc.
1. Remove all products from equipment unless treating only the return portion of a conveyor.
2. Prepare VigorOx® 15 F&V solution by adding 0.31 to 0.45 fluid ounces to 5 gallons of potable water. This provides 85 to 123 ppm peroxyacetic acid and 57 to 82 ppm of hydrogen peroxide.
3. Apply sanitizer solution to the return portion of the conveyor or to the equipment using a coarse spray or other means of wetting the surfaces. Control the volume of solution so as to permit maximum drainage and to prevent puddles. The conveyor surfce may still be damp when food contact occurs.
4. If sanitizing against Listeria monocytogenes use 0.4 to 0.45 fluid ounces (109 to 123 ppm peroxyacetic acid and 73 to 82 ppm hydrogen peroxide) of product to 5 gallons of potable water.
5. Allow equipment to drain adequately before reusing; a dry surface is not required.

Surfaces Treated to Control the Spread of Citrus Canker
VigorOx® 15 F&V can be used to control the spread of citrus canker between inanimate surfaces and inanimate surfaces to plants. This product is for sanitizing surfaces such as packinghouse conveyers and harvesting equipment and containers. This product is not for treatment of infected plants.
Packinghouse Sanitization
Vigor® 15 F&V is an effective sanitizer against microorganisms: Xanthomonas campestris (axonopodis) pathovars citrumelo (citrus canker surrogate) and Aspergillus versicolor, as well as Staphylococcus aureus, Escherichia coli, and Salmonella typhimurium.
1. Remove gross contamination with a cleaner or other suitable detergent and rinse with potable water.
2. Use Vigor® 15 F&V at a dilution of 3.1 fluid ounces per 50 gallons of water (85 ppm peroxyacetic acid and 57 ppm hydrogen peroxide) as a general sanitizing coarse spray to reduce bacterial and fungal contamination of walls, floors, conveyers and harvesting containers.
3. Allow sanitizer to contact surface for at least one (1) minute.
4. Allow to air dry, do not rinse.

Field Equipment Sanitization
Vigor® 15 F&V may be used to sanitize harvest equipment such as pickers, trailers, trucks (including truck body parts and tires), bins, packing crates, ladders, power tools, hand tools, gloves, rubber boots, pruning shears or other equipment that may transfer pathogens to produce or processing equipment or water. To disinfect, apply Vigor® 15 F&V by wiping, mopping, or as a coarse spray. Allow to soak for at least 5 minutes, then air dry. Not approved for CA.

Antimicrobial Rinse of Precleaned or New Returnable or Non-Returnable Containers
To reduce the number of nonpathogenic beverage spoilage organisms: Aspergillus versicolor, Byssoschlamys fulva, Pedicoccus damnosus, Lactobacillus buchneri, and Saccharomyces cerevisiae, use 1 to 10 fluid ounces of product per 5 gallons of water. This provides 265 to 2700 ppm peroxyacetic acid and 175 to 1800 ppm hydrogen peroxide. After applying the antimicrobial rinse, allow containers to drain thoroughly. Optional rinse with sterile or potable water.

For Reducing Pathogenic Foodborne Bacteria in Processing Waters for Fruits and Vegetables
Vigor® 15 F&V can be used for reducing (in 90 seconds) 99.9% of pathogenic foodborne bacteria (Escherichia coli, Salmonella enterica, and Listeria monocytogenes) in processing waters for fruits and vegetables.
1. Ensure the solution is thoroughly mixed.
2. Add Vigor® 15 F&V at a dilution of 0.54 fluid ounce per 16 gallons of water. This provides approximately 45 ppm peroxyacetic acid and 30 ppm hydrogen peroxide.
3. Allow the solution to circulate at least 45 seconds before adding or treating raw, fresh-cut or processed fruits and vegetables.
4. Add concentrate as needed to maintain a minimum product concentration of 45 ppm peroxyacetic acid.
5. Prepare fresh process water daily. Do not reuse water that is badly fouled.

For Treatment of Processed Fruit and Vegetable Surfaces and Process Water to Control Growth of Non-Public Health Microorganisms that Can Cause Spoilage of Fresh-Cut, Post-Harvest or Processed Fruits and Vegetables
1. Ensure the solution is thoroughly mixed.
2. Add Vigor® 15 F&V at a dilution of 0.1 fluid oz. to 1.0 fluid oz. per 16 gallons of water. This provides 5 to 85 ppm peroxyacetic acid and 4 to 57 ppm hydrogen peroxide.
3. Allow the solution to circulate at least 45 seconds before adding or treating raw, fresh-cut or processed fruits and vegetables.
4. Add concentrate as needed to maintain a concentration of at least 5 ppm peroxyacetic acid and 4 ppm hydrogen peroxide.
5. Prepare fresh process water daily. Do not reuse water that is badly fouled.

For Treatment of Processed Fruit and Vegetable Surfaces
Vigor® 15 F&V can be applied as a dip or spray to control the growth of non-public health microorganisms: Xanthomonas campestris (axonopodis) pathovars citrumelo (citrus canker surrogate) and Aspergillus versicolor, blue mold (Penicillium species), and green mold (Penicillium species) and stem-end rot (Geotrichium) 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 treatment solution by adding 1.0-16.0 fluid ounces per 16 gallons of potable water. This will provide 85-500 ppm peroxycetic acid and 57-330 ppm hydrogen peroxide.

2. Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits or 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. Prepare fresh process water daily. Do not reuse water that is badly fouled.

VigorOx® 15 F&V can be used on the following raw and post-harvest fruits and vegetables

**Fruits**
- Citrus fruits: citrus citron, citrus hybrids, grapefruit, kumquat, lemon, lime, mandarin (tangerine), orange, and pummelo
- Pome fruits: apple, crabapple, mayhaw, pear, and quince
- Stone fruits: apricot, cherry, nectarine, peach, plum, and prune
- Berries group: blackberry, blueberry, currant, cranberry, grape, honeysuckle, kiwifruit, serviceberry, raspberry, and strawberry

**Vegetables**
- Root & tuber vegetables: artichoke (Chinese and Jerusalem), beet, carrot, chicory, ginger, gunseng, horseradish, parsley, potato, radish, rutabaga, salsify, sweet potato, and yam
- Leaves of root and tuber vegetables: beet, carrot, celeriac, chicory, radish, rutabaga, sweet potato, turnip, and yam
- Bulb vegetables: chive, garlic, leek, onion, and shallot
- Leafy vegetables: arugula, celery, endive, fennel, lettuce, parsley, radicchio, rhubarb, spinach, and Swiss chard
- Brassica leafy vegetables: broccoli, Brussels sprouts, cabbage, cauliflower, collards, kale, and mustard greens
- Legumes: bean, chickpea, guar, lentil, pea, and soybean
- Fruiting vegetables: eggplant, pepper, tomato, and tomato
- Cucurbits: citrus melon, cucumber, gourd, Momordica spp., muskmelon, pumpkin, and squash, and watermelon

Sprouts and seeds of: Fruits and Vegetables that are listed on this label including citrus fruits, pome fruits, stone fruits, berries group, root & tuber vegetables, bulb vegetables, leafy vegetables, Brassica leafy vegetables, legumes, and fruiting vegetables.

**Other**
- Tree nuts: almond, beechnut, brazil nut, butternut, cashew, chestnut, filbert, hickory nut, macadamia nut, pecan, walnut
- Cereal grains: barley, buckwheat, corn, millet, oats, popcorn, rice, rye, sorghum, teosinte, triticale, wheat, and wild rice
- Herbs and spices: Allspice, anise, basil, balm, basil, chive, celery seed, clove buds, cinnamon, coriander, cumin, curry, and dill (including seed), fennel, lavender, lemongrass, lovage, pepper, nutmeg, rosemary, saffron, sage, taragon, thyme, and vanilla
- Edible fungi: mushroom and truffle

To remove scale, calcium, iron, magnesium, heavy soils, polysaccharides and deposits from vitamins and medications from livestock watering systems use VigorOx® 15 F&V at 0.15-0.30 fl. oz. per gallon of water. When used as directed, VigorOx® 15 F&V will remove organic and inorganic deposits that reduce water flow and clog nipples. Allow system to run for 6 - 24 hours depending on the conditions. Following the cleaning process, rinse with potable water to remove the cleaning solution from the watering line, nipples and cups. Never mix VigorOx® 15 F&V with any other product.

### Cleaning Poultry, Swine, Livestock Watering Operating Systems When Animals are Present

After water lines have been cleaned, use VigorOx® 15 F&V at 0.3-0.45 fl. oz. per 100 gallons of water to control mineral build up in watering lines. Never use VigorOx® 15 F&V more than 5 consecutive days to clean the operating system. Never mix VigorOx® 15 F&V with any other product. If cleaning the operating system, stop the use of VigorOx® 15 F&V twenty-four (24) hours prior to vaccination or medication via the water line.

### Control of Algal and Slime Forming Bacterial Growth in Livestock Water

**Stock Tanks and Livestock Water**

Use VigorOx® 15 F&V to suppress / control algae, odor causing and slime-forming bacteria and sulfides in stock tanks, stock watering ponds, tanks and troughs, and livestock water. Apply 0.4 to 2.0 fluid ounces of VigorOx® 15 F&V per 250 gallons of water (2 – 11 ppm of 100% peroxycetic acid) for algae control. Product can be simply added to the body of water. Where existing algae mats are present at time of treatment, the most effective control will be obtained by breaking up mats and/or evenly dispersing diluted VigorOx® 15 F&V over the algae mats. Apply VigorOx® 15 F&V as needed to control and prevent algae growth; apply more often in times of higher water temperatures.

### Drip system application for livestock watering tanks:

Tanks fed by a continuous flow of spring or well water can be equipped with a chemical drip system designed to meter-in VigorOx® 15 F&V based upon water flow rates. Pre-dilute VigorOx® 15 F&V at a 1:265 rate or 4-ml/minute water flow rate. Treat continuously or as needed to control and prevent algae regrowth.

### Poultry, Swine, Livestock Water Line Cleaner When System is Not in Use

To remove scale, mineral buildup and heavy soils from livestock watering systems use VigorOx® 15 F&V at 0.15-0.3 fl. oz. per gallon of water. Allow system to run for 6 to 24 hours depending on the conditions. Following the cleaning process, rinse with potable water to remove the cleaning solution from the watering line, nipples and cups.

### Poultry, Swine, Livestock Watering Operating Systems

After water lines have been cleaned, use VigorOx® 15 F&V at 0.3-0.42 fl. oz. per 100 gallons of water to control algae and bacteria in drinking water and to control mineral build up in watering lines.

### Agricultural and Horticultural Uses

A Restricted-Entry-Interval of zero (0) hours is required for VigorOx® 15 F&V in agricultural or horticultural uses. This product should not be mixed or combined with any pesticides or fertilizers. Upon soil contact, the diluted product decomposes rapidly to oxygen, carbon dioxide and water. This product may be harmful to fish if exposed on a continuous basis at concentrations greater than 1 ppm of active peracetic acid. Meter VigorOx® 15 F&V into pressurized pipes using a plastic or stainless steel injection/backflow device installed upstream from the equipment to ensure thorough mixing prior to application. For open bodies of water, allow adequate mixing prior to product flow entering any body of water. If open pouring of this product is required, pour product close to the surface of the water as possible to reduce odor and exposure.

### Treatment of Agricultural and Irrigation Water Systems

Use VigorOx® 15 F&V to control sulfides, odor, slime, and algae in sand filters, humidification systems, storage tanks, ponds, reservoirs, canals. Apply VigorOx® 15 F&V at 15 to 75 fluid ounces per 10,000 gallons of water. This provides 2 ppm to 10 ppm peroxycetic acid. Repeat dose as necessary to maintain control. For prevention of algae, some systems may require...
continuous low level dosing during warm, sunny periods (2 ppm to 5 ppm peroxyacetic acid).

**Drip Irrigation Systems**
To clean slime and algae from drip system filters, tapes and emitters, meter VigorOx® 15 F&V at 7.5 to 15 fluid ounces per 1000 gallons. This provides 10 ppm to 20 ppm peroxyacetic acid. Use this product at the recommended dose for a minimum of 30 minutes during normal irrigation cycles. Upon irrigation cycle completion, discontinue use and flush the lines.

In all applications always prepare a new solution daily to ensure effectiveness. Do not re-use solutions. Dispose of unused solution.

**Non-Pesticidal Cleaning**
All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging.
1. Prior to fogging, remove or carefully protect all food products and packaging materials.
2. Vacate the area of all personnel prior to, during, and after fogging until the hydrogen peroxide concentration is below 0.5 ppm. Ensure room is properly ventilated after fogging.
3. Fog areas using one quart per 1000 cu. ft. of room area with a 0.30% (3.8 fluid ounces per 10 gallons of water) VigorOx® 15 F&V solution.
4. Allow surfaces to drain thoroughly before operations are resumed.

**Note:** May cause bleaching of treated surfaces; test commodity if unsure.

**Note:** Before using VigorOx® 15 F&V on metal surfaces, it is recommended that the diluted solution be tested on a small area to determine compatibility.

**EMERGENCY TELEPHONE NUMBERS (24 HOURS)**
MEDICAL: COLLECT 303-595-1409
TRANSPORTATION: 800-424-9300
OTHER: COLLECT 716-879-0400