DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF PIPING with its labeling

SANITIZATION

as cleaning

FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled. PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators pasteurizers and aseptic equipment in dairies breweries 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 indicates there is less then 3 ppm peroxygen. 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, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of SURFACES)PERACLEAN® 15, as received or diluted, may be added Escherichia coli. Use immersion, coarse spray or circulation techniques design and usage characteristics of the system. Adjust the addition rate as appropriate to the equipment. All surfaces should be exposed to the of PERACLEAN® 15 or the solution and periodically monitor residual governing sanitary code. Drain thoroughly. Do not rinse.

SANITIZING, EATING, DRINKING, AND FOOD PREP UTENSILS

Remove gross food particles by a prescrape, a preflush and when necessary a presoak treatment. Wash with a recommended detergent. Rinse with clean water. Sanitize in a solution of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water. Immerse all utensils for at least 60 seconds or contact HARD SURFACE DISINFECTION time specified by governing sanitary code. Drain and air drv.

SANITIZING TABLEWARE

For sanitizing tableware in low temperature warewashing machines, inject PERACI EAN® 15 into the final rinse water at a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water. Do not exceed 0.053 % v/v. This will provide 88 ppm of peroxyacetic acid. Air drv. To insure that the PERACLEAN® 15 sanitizer concentration does not fall

sanitizing tableware in warewashing machines. FINAL SANITIZING BOTTLE RINSE

acid

BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA FILTRATION

AND REVERSE OSMOSIS (RO) MEMBRANES

and non-medical institutional/industrial reverse osmosis (RO) membranes high level disinfection. and their associated distribution systems.

This product has been shown to be an effective disinfectant when tested by AOAC and EPA methods. This product may not eliminate all vegetative systems due to their construction and/or assembly, but can be relied upon directed Check with equipment manufacturer for membrane compatibility with PERACLEAN® 15.

system with an appropriate cleaner. Flush the system with RO permeate or solution and entrapped soil with a clean wet mop, cloth, or wet vacuum similar quality water. Remove mineral deposits with suitable acidic cleaner pickup. Prepare a fresh solution daily or when it becomes soiled or diluted. prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar guality water. Prepare an appropriate volume of 1% solution of the product (0.33 gallon of PERACLEAN® 15 to hatcheries, and livestock quarters. When used as directed. PERACLEAN® 100 gallons of water). This will provide 568 ppm of peroxyacetic acid and 15 is specifically designed to disinfect, deodorize and clean inanimate, hard, 834 ppm hydrogen peroxide. Fill the entire water circuit to be sanitized with surfaces such as walls, floors, sink tops, furniture, operating tables, kennel the dilute solution and allow the solution to reach a minimum of 20°C (68°F). Recirculate the dilute solution of PERACLEAN® 15 for a minimum of 10 15 will deodorize those areas which are generally hard to keep smelling fresh minutes. Allow membrane elements to soak in the solution for a minimum such as garbage storage areas, empty garbage bins and cans, and any other of 20 minutes. Rinse the RO system and test for residuals to ensure that areas which are prone to odors caused by microorganisms. there is less than 3 ppm per oxygen. Diverting product water to drain can All treated equipment that will contact food, feed, or drinking water must be reduce residuals.

SYSTEMS ASSOCIATED WITH RO MEMBRANES

Isolate incompatible equipment from piping system. This includes activated NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be carbon filters and ion exchange equipment. Turn off power to ultraviolet used for subsequent sanitizing but may be reused for other purposes such light units. Estimate total volume of water contained in the system (tanks. rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves wineries, beverage and food processing/packing plants, egg processing/ should be opened and closed to expose internals to the PERACLEAN® 15. Completely drain the system of dilute PERACLEAN® 15 solution. Thoroughly rinse the system by filling with RO permeate or similar quality water and recirculate before drainage. Repeat the process until test for residuals

CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF

BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN

PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT

0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% continuously to the feed water system, between system sanitizing episodes. v/v concentration). This will provide 88 ppm of peroxyacetic acid. At this to aid in minimizing the regrowth/ accumulation of biological matter. The dilution PERACLEAN® 15 is effective against Staphylococcus aureus and peroxygen residual in the system which will be effective will vary with the sanitizing solution for a period of at least 60 seconds or more if specified by peroxygen so that the desired effect is obtained. For continuous addition. do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

PERACLEAN® 15 disinfects as it cleans in one operation. PERACLEAN® shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, nonstainless steel, or glass

below 48 ppm peroxyacetic acid, periodically test the rinse solution with a nursing services; autopsy facilities. Also, use PERACLEAN® 15 in nursing Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. suitable test kit and adjust the dispensing rate accordingly. Consult your homes, other health-care facilities, schools, colleges, veterinary clinics, technical service representative for assistance and further information on animal life science laboratories, industrial facilities, dietary areas, office buildings, recreational facilities, retail and wholesale establishments.

the body, or (2) contacts intact mucous membranes but reuse

which does not ordinarily penetrate the blood barrier or PHYSICAL AND CHEMICAL HAZARDS PERACLEAN® 15 can be used for the sanitization of ultra filtration, medical or semi-critical medical devices prior to sterilization or released could initiate combustion.

COMBINATION DISINFECTION AND CLEANING

heavily solled 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 Remove biological or organic fouling from the membrane or other parts of the wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal guarters, poultry premises, poultry

runs, cages, and feeding and watering equipment. In addition PERACLEAN®

rinsed with potable water before reuse. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use

PERACLEAN ® 15 🔊 (PEROXYACETIC ACID SOLUTION) PERACLEAN® 15 IS A PEROXYACETIC ACID-BASED SANITIZER/DISINFECTANT DEVELOPED FOR THE FOLLOWING USES:

Institutional/Industrial Sanitizing of Previously	Hard Surface Disinfection in:	Bacteria, Fungi, and Slime	Active Ingredients:	
Cleaned Non-Porous	•Hospitals	Control in:	Hydrogen Peroxide	22.0%
Food Contact Surfaces in:	•Health Care Facilities	 Pulp and Paper 	Peroxyacetic Acid	15.0%
•Dairies	•Schools	Mill Systems	Inert Ingredients:	63.0%
•Wineries	•Colleges	 Dispersed Pigments 		
•Breweries	 Veterinary Clinics 	 Cooling Water Systems 	Total:	100%
 Food and Beverage Plants 	 Animal Life Science Laboratories 	 Coatings Preservation 	Net contents as stated	
 Disinfecting Poultry Premises 	 Industrial Facilities 		on container	
 Poultry Hatcheries 	 Office Buildings 			
 Animal Housing Facilities 	 Recreational Facilities 		EPA Reg No: 54289-4	
•Reverse Osmosis Membranes	 Retail and Wholesale 		EPA ESTAB.	NO:
and Ultra Filtration	Establishments		70253-CA-002,	
			70547-IL-001	

Before Using This Product, Please Read This Entire Label Carefully. KEEP OUT OF REACH OF CHILDREN

FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 15 can be used to disinfect floors, walls and other hard nonporous surfaces minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.

such as tables, chairs, countertops, bathroom fixtures, sinks, bed frames, If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call poison control Batch, Continuous or Spray System Processes: Fill vessel containing fruits product to become overheated in storage. This may cause center or doctor for treatment advice.

porous glazed porcelain, plastic (such as polypropylene and polyethylene), If swallowed: 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. Call poison control center or doctor for treatment advice

Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by by initially adding 1.0 fl. oz. per 16.4 gallons of water. The fruits and other pesticides or fertilizers could occur. mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

This product is not to be used as a terminal sterilant/high DANGER. CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through the skin. Harmful water rinse is not required. This product is not intended for use in primary be disposed of according to label directions, contact your State PERACLEAN® 15 may be used as a final sanitizing rinse for returnable and level disinfectant on any surface or instrument that (1) is if swallowed. Do not breathe vapors or spray mist. Do not get in eyes on skin or on clothing. Wear goggles and/or face shield and rubber non-returnable bottles at a 0.053% dilution (0.33 fluid ounce PERACLEAN® introduced directly into the human body, either into or in gloves when handling. Do not enter an enclosed area without proper respiratory protection. Wash thoroughly with soap and water after 15 dissolved in 5 gallons of water). This will provide 88 ppm of peroxyacetic contact with the bloodstream or normally sterile areas of handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before AGRICULTURAL OR HORTICULTURAL USES:

otherwise enter normally sterile areas of the body. This STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. product may be used to preclean or decontaminate critical PERACLEAN® 15 is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen rapidly to oxygen, carbon dioxide and water. This product may be harmful different (concentrated) product to be diluted in the container."

This pesticide is toxic to birds, fish, and aquatic invertebrates. Caution should be used when applying indoors because pets may be at risk. PERACLEAN® 15 is effective against Staphylococcus aureus. Salmonella Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with microorganisms in reverse osmosis membranes and their associated piping choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in Escherichia coli O157:H7 at 0.08% (0.5 fl. oz./5 gal.) in hard water (400 ppm writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage to reduce the number of microorganisms to acceptable levels when used as as CaCO3) and 5% fetal bovine serum on hard nonporous surfaces. For treatment plant authority. For guidance contact your State Water Board or Regional Office of the US Environmental Protection Agency.



Evonik Corporation 299 Jefferson Rd Parsippany, New Jersey 07054-0677



8-24-15 DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND

POULTRY HATCHERY DISINFECTION

CRATES

Remove all litter and droppings from floors, walls and surfaces of facilities on raw, post-harvest fruits and vegetables during the washing process. This occupied or traversed by poultry. Empty all troughs, racks and other feeding product can be applied during physical cleaning processes, including at the and watering appliances. Thoroughly clean all surfaces with a detergent and roller spreader, washer manifold, dip tank, on the brushes or elsewhere in rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution the washing process prior to, simultaneously with or after detergent wash. of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops 1. Prepare treating solution by diluting 1 fluid ounces per 16 gallons of potable and other closed spaces. Do not house poultry or employ equipment until water. This will provide 85 ppm peroxyacetic acid and 125 ppm hydrogen treatment has been absorbed, set or dried. Thoroughly scrub treated feed neroxide racks, troughs, automatic feeders, fountains and waterers with a detergent 2. Apply the diluted sanitizer solution using a coarse spray directed at the fruits and rinse with potable water before reuse. See your technical representative or vegetables, or by soaking the fruits and vegetables in the solution. Allow a 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 cresvlic acid, and pine oils). Remove animals and feed from premises. vehicles, and enclosures. Remove litter, waste matter, and gross soils from PROCESS WATERS TO CONTROL GROWTH OF NON-PUBLIC HEALTH 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 PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining of at least 45 seconds. No rinse following application is required. This use 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, fountains, and waterers with soap or detergent, and rinse STORAGE AND DISPOSAL with notable water before reuse.

TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS harvest or further processed fruits and vegetables for the control of bacteria and fungi in commercial operations and packinghouses.

and vegetables with known amount of water. Ensure that water is circulating increased degradation of the product, which will decrease product in vessel if using the submersion method. Add this product at a rate no more effectiveness. In case of spill, flood area with large quantities of than 80 ppm peroxyacetic acid to the use solution. This can be accomplished water. Do not store in a manner where cross-contamination with vegetables can be continuously sprayed (using coarse spray) or submerged **PESTICIDE DISPOSAL:** Wastes resulting from the use of product to maintain the required concentration may be added as necessary. this product may be disposed of on site or at an approved waste Contact time of 60 seconds is recommended to insure efficacy. A potable disposal facility. Open dumping is prohibited. If wastes cannot flumes prior to the point of the first dewatering stage.

There is a Restricted-Entry-Interval of zero (0) hours after the use of this CONTAINER DISPOSAL: Nonrefillable container. Do not product. This product should never be mixed or combined with any other pesticide or fertilizer. Upon soil contact this diluted product decomposes to fish if exposed on a continuous basis at concentrations of 1 ppm or more Containers less than 5 gallons: of active peroxyacetic acid. Meter this product into pressurized pipes using Triple rinse as follows: Empty the remaining contents into a plastic or stainless steel injection/backflow device installed far enough application equipment or a mix tank and drain for 10 seconds upstream from the equipment to insure thorough mixing. For open flowing after the flow begins to drip. Fill the container 1/4 full with water bodies of water, apply this product as far upstream as possible to allow adequate mixing prior to the flow entering any larger body of water. If open pouring of this product is required, pour product as close to the surface of the equipment or a mix tank or store rinsate for later use or disposal. water as possible to reduce odor exposure.

TREATMENT OF AGRICULTURAL OR IRRIGATION WATER SYSTEMS (SAND

FILTERS, HUMIDIFICATION SYSTEMS, STORAGE TANKS, PONDS, RESERVOIRS, CANALS):

For the control of sulfides, odor, slime and algae in water systems, apply this product at 2-10 ppm active peroxyacetic acid. This feed rate equals 15-75 tighten closures. Tip the container on its side and roll it back and fl. oz per 10,000 gallons of water. Repeat dose as necessary to maintain forth, ensuring at least one complete revolution, for 30 seconds. control, which will vary with seasonal conditions. For prevention of algae, Stand container on its end and tip back and for the several times, some systems may require continuous low level dosing during warm sunny Empty the rinsate into application equipment or a mix tank or store periods (2-5 ppm peroxyacetic acid).

gallons of water (10-20 ppm peroxyacetic acid). When required during normal by incineration, if allowed by state and local authorities by burning. irrigation cycles, use this product at the recommended dose for a minimum of 30 minutes. Thereafter, the irrigation cycle should be discontinued and the

line should not be flushed.

FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VEGETABLE SURFACES PERACLEAN® 15 can be applied as a dip or spray to control the growth Remove all poultry and feeds from premises, trucks, coops and crates. of non-public health microorganisms that may cause decay and/or spoilage

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

MICRORGANISMS 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 complies with the requirements of 21 CFR173.315 (a) 5 3. The treated produce can be drain dried without a potable water rinse.

4.Do not reuse solution after treatment.

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal. PERACLEAN 15 can be used in water or ice that contacts raw or fresh, post-PERACLEAN 15 can be used in water or ice that contacts raw or fresh, post-PERACLEAN 15 can be used in water or ice that contacts raw or fresh, postcool, well-vented area, away from direct sunlight. Do not allow

Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for quidance

reuse or refill this container unless the directions for use allow a

and recap. Shake for 10 seconds. Pour rinsate into application Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Containers greater than 5 gallons:

Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment

or mix tank. Fill the container 1/4 full with water. Replace and Drip Irrigation Systems: To clean slime and algae from drip system filters, the offer for recycling or dispose in a sanitary landfill, or the offer for recycling or dispose in a sanitary landfill, or rinsate for later use of disposal. Repeat the procedure two more

DANGER

Label not for use in California

ENVIRONMENTAL HAZARDS

