



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Tiana Rosamilia, Product Regulatory Services Evonik Industries 299 Jefferson Rd Parsippany, NJ 07054

MAR 2 6 2014

Subject:

Notification; Per PR-Notice 98-10

Product Name: PERACLEAN 5% EPA Registration Number: 54289-3 Application Date: January 6, 2014

Dear Ms. Rosamilia:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated November 18, 2013 for the product referenced above. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the addition of pre-treatment prior to sanitization of food-contact surfaces, falls within the scope of PRN 98-10 and is acceptable. A copy of this notification will be placed in our PERACLEAN 5% records.

If you have any questions regarding this letter, please contact Amaris Johnson at johnson.amaris@epa.gov or call (703) 305-9542.

Sincerely,

Marshall Swindell Product Manager 33

Regulatory Management Branch I Antimicrobial Division (7510P) Office of Pesticide Programs

Jusan for

Please read instructions on reverse before completing rm.	Form Approved, OM . 2070-0060
United States Environmental Protection Washington, DC 20460	
Application for Pesticide - Section I	
1. Company/Product Number Evonik Corporation/ 54289-3	2. EPA Product Manager Marshall Swindell
4. Company/Product (Name) Evonik Corporation- PERACLEAN 5	PM# X None Restricted
5. Name and Address of Applicant (Include ZIP Code) 299 Jefferson Rd Parsippany NJ 07054	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.
Check if this is a new address	Product Name
Section - II	
Amendment - Explain below. Resubmission in response to Agency letter dated	
Explanation: Use additional page(s) if necessary. (For section I and Section II.) Evonik is requesting a fast track review of our label to add a statement with regards to Pre-treatment cleaning prior to sanitization.	
Section - III	
1. Material This Product Will Be Packaged In:	
Yes Yes No If "Yes" No. per	Water Soluble Packaging Yes No If "Yes" No. per Package wgt container 2. Type of Container Metal Plastic Glass Paper Other (Specify)
3. Location of Net Contents Information 4. Size(s) Retail Container 5. Location of Label Directions	
Label Container On Label On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product Lithograph Paper glued Stenciled Cocccc	
	Section - IV
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)	
Name Tiana Rosamilia M	tie Telepinone No. (Include Area Code) Manager (443-609-4654 ° c
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. Det Application (Resolited	
2. Signeture	Title
Transfer M	lanager
4. Typed Name 5.	Date
Tiana Rosamilia 0	01-06-2014



AŢTN: Marshall Swindell

Office of Pesticide Programs
One Potomac Yard
2777 S. Crystal Drive
Arlington VA 22202

January 6, 2014 **Tiana M. Rosamilia**Product Regulatory Services
Phone +443-609-4654

Fax +1 973 929-8040

Tiana.Rosamilia@evonik.com

Evonik Corporation www.evonik.com

Re: Amendment of PERACLEAN™ 5 to add statement of Pre-treatment

Dear Mr. Swindell:

Evonik Corporation is submitting 3 copies of our proposed amendment to add the following statement:

PRE-TREATMENT PRIOR TO SANITIZATION OF FOOD-CONTACT SURFACES

Peraclean 5 can be used as a pre-treatment on food contact prior to sanitization. For use dilute 3.5 -7.0 fl. oz of PERACLEAN® 5 in 5 gallons of water, this will provide 300-600 ppm peroxyacetic acid. Let soak for 15 minutes and follow with a potable water rinse.

Please feel free to call me at 443-609-4654 if there are any questions or concerns.

Respectfully submitted,

Tiana M. Rosamilia

PRE-IREATMENT PROR TO SANITIZATION OF FOOD-CONTACT SURFACES

Peraclean 5 can be used as a pre-treatment on food contact prior to sanitization. For use ditute 3.5 -7.01. oz of PERACLEANØ 5 in 5 gallons of water, this will provide 300-600 ppm peroxyacetic acid. Let soak for 15 minutes and follow with a potable water

<u>ANITIZATION</u>
NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be used for OPERATIONS fresh santizing solutions should be prepared at least daily or ubsequent sanitizing but may be reused for other purposes such as cleaning. nore often if the solution becomes diluted or solled.

This product is effective as a sentitizer 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 60 second exposure period in the AOAC Germicidal and PERACLEAN® 5 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, proefines, tanks, vats, filters, evaporators, pasteurhaers and asceptic equipment in darites, breweries, winerlies, beverlage and food processing packing plants, egg processing/packing equipment surfaces, and eating establishments. Detergent Sanitizing Action of Disinfectants study. 6.4

gainst Staphylococcus aureus [(ATCC 6538)] and Escherichia coil 29), Pseudomonas Aeruginosa [(ATCC 1542)] Satmonella typhimurium CC 753564) MANITZING FOOD CONTACT SURFACES

This will provide 88 to 130 ppm of peroxyacetic acid. At this difution PERACLEAN® 5 is effective against Staphylococcus aureus and Escherichia coti and Sahnonala typhimurium ((ATCC 23564)). For use against Pseudomonas aeruginosa prepare a Prior to santizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sartitze with a concentration of 1.0 to 1.5 ft. oz. PERACLEAN® 5 dissolved in 5 gattons of water j(0.16 to 0.22% v/v concentration). antitizing solution by adding 2.1 to 2.3 fl. oz. PERACLEANO 5 dissolved in 5 gallons of water. This will provide 180-200 ppm of peroxyacetic acid. Use immersion, coarse spray or circulation techniques as appropriate to the equipment. All surfaces should be exposed to the saritizing solution for a period of at least 60 seconds or more if specified by governing sanitary code. Drain thoroughly and allow to air dry. Do not rinse.

SANTIZING, EATING, DRINKING, AND FOOD PREP UTENSILS

Vernove gross food particles by a pre-scrape, a pre-flush and, when necessary, a pre-scrape. These with clean water. Wash with a recommended detargent. Rinse with clean water. Santisze in a solution of 1.0 to 1.5 fl. oz. PERACLEAN® 5 dissolved in 5 gallons of water. mmerse all utensits for at least 60 seconds or contact time specified by governing anitary code. Drain and air dry.

or sanitizing tableware in low temperature warewashing machines, tigiect PERACLEAN® 5 into the final rinse water at all concentration of 1.0 to 1.5 ft. oz. PERACLEAN® 5 dissolved in 5 gallons of water. Do not exceed 0.16 to 0.22% v/v. Air This will provide 88 to 130 ppm of peroxyacetic acid.

o insure that the PERACLEAN® 5 sanitizer concentration does not fall below 48 ppm "ansing rate accordingly. Consult your fechnical service representative for and further information on santitzing tableware in warewashing machines.

*SAMIZATION
ACLEANO 5 can be applied as a foam for santitization for previously clean, hard
ACLEANO 5 can be applied as a foam for santitization for previously clean, hard non-porous surfaces such as floors, walls, ceilings, drains, and boots. Foam plications can be used where penetration and retention of product for required times difficult to achieve. For example, uses that include operating conveyor belts and con-porous food contact surfaces and general environmental (non-food rtical or uneven surfaces.

Prepare a datute PERACLEAN® 5 solution by adding 1.2 to 2.3 fl oz. per 5 gattons

2. After preparing the PERACLEAN® 5 solution add 1.2 to 10.0 floz. of AGRHO FM-AGRHO FN-2011 is the only approved foam-generating additive for use with potable water.

3.Apply the santizing solution as a foam using corimmercially available foam generating equipment. Allow foam to contact surfaces at least one minute. For foot bath application, allow foam to remain on boot surface for one minute upon exiting the bath.

ANTIMICROBIAL RINSE OF PRE-CLEANED OR NEW RETURNABLE OR

Drain items and or surfaces thoroughly

Pediococcus damnosus [(ATCC 29358)], Lactobacillus buchneri [(ATCC4005)], and against Aspergillus versicolor[(ATCC 9577)], Byssochlamys fulva [(ATCC NAME TURNABLE CONTAINERS. reduce the number of non-pathopenic beverage spoilage organisms.

Saccharomyces cerevisiae [(ATCC47058)].
I. Prepare PERACLEANO 5 solution by adding 31 fl. oz. to 5 gatlons potatile water. This "Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow provides 2,632 ppm peroxyacetic acid.

minimum seven-secono context, pervo... Allow containers to drain thoroughly, and then rinse with sterile or potable water.

and non-returnable bothes at a 0.16 to 0.22% dution (1.0 to 1.5 ft. oz. PERACLEANS 5 descoived in 5 gallons of water). This will provide 89 to 130 ppm of peroxyacetic acid.

HARD SURFACE DISPRECTION
PERACLEAN® 5 and bused to distinct floors, which and the PERACLEAN® 5 and bused to distinct floors, wise and other hard nonprorus surfaces such as tables, chairs, countertops, bathroom futures, sinks, bed frames, sheves, racks, carts, refrigerators, coolers, the and use sizes on this label made from lindeum, why, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene).

SCHRIPTON DISHAECTON AND CLEANING

COMBINATION DISHAECTON AND CLEANING

PERACLEAN® 5 is effective against Staphylococcus aureus, [ATCC10708]], Tichophylococcus aureus, [ATCC10708]], Tichophylococcus aureus, [ATCC10708]], Tichophylococcus aureus, [ATCC10708]], Tichophylococcus aureus, [ATCC10708], Tichophylococcus aureus, [ATC0708], Tichop Samonella choleraesuis [(ATCC10708)], Trichophybon mentagrophytes [(ATCC 9533)], and Escherichia coli 0157:H7[(ATCC) mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or 50]] at 0.23% (1.5 ft. oz./5 gal.) in hard water (400 ppm as CaCO3) 5% fetal bovine serum on hard nonporous surfaces. For heavity soiled areas a pre-cleaning step is required. Apply solution with mog, 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, then remove solution and entrapped soil with a clean wet when it becomes sailed or diluted

walls, floors, sink tops, and furniture. In addition PERACLEAN® 5 will such as, garbage storage areas, empty garbage bins and cans, and treated equipment that will contact food, feed, or drinking water deodorize those areas which are generally hard to keep smelling fresh other areas which are prone to odors caused by microorganisms. used as directed, PERACLEAN® 5 is specifically design deodorize and clean inanimate, hard, surfaces such

soiled areas, a pre-cleaning step is required. Prepare a must be rinsed with potable water before reuse.

For heavily solled areas, a nre-cheaning stands. fresh solution for each use.

BATCH SANTIZATION (NON-FOOD CONTACT SURFACES) OF

medical and non-medical institutional/industrial reverse osmosls (RO) LEAN® 5 can be used for the sanitization of uftra fitration, <u>JLTRA FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES</u>

tested by AOAC and EPA methods. This product may not eliminate all associated piping systems due to their construction and/or assembly, but can be refect upon to reduce the number of microorganisms to acceptable levels when used as directed. "Check with equipment manufacture for membrane compatibility with PERACLEAN® 5. This product has been shown to be an effective disinfectant when vegetative microorganisms in reverse osmosis membranes and their membranes and their associated distribution systems.

parts of the system with an appropriate cleaner. Flush the system with RO permeate or similar quality water. Remove mineral deposits Remove biological or organic fouling from the membrane or other with suitable acidic cleaner prior to sanitizing the membranes with PERACLEANS 5. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate volume of 1% solution of product (1 gallon of PERACLEAN® 5 to 100 gallons of water). This peroxide. Fill the entire water circuit to be sanitized with the dilute minimum of 20 minutes. Rinse the RO system and test for residuals to ensure that there is less than 3 ppm peroxygen. Diverting product provide 549 ppm of peroxyacetic acid and 2,967 ppm hydrogen solution and allow the solution to reach a minimum of 20°C (68°F) Re-circulate the dilute solution of PERACLEAN® 5 for a minimum o minutes. Allow membrane elements to soak in the solution for

BATCH SANTIZATION (NON-FOOD CONTACT SURFACES) OF water to drain can reduce residuals

the system (tanks, rinse stations and piping). Prepare an appropriate volume of 1.0 to 1.5% PERACLEAN® 5 by adding 1.0 to 1.5 gallons of the product for every 100 gallons of solution prepared. Use RO 823 ppm peroxyacetic acid and 2,967 to 4,450 ppm hydrogen peroxide. Re-circulate the dilute PERACLEAN® 5 solution through the system for a minimum of 4 hours. Process usage valves should be opened This includes to ultraviolet light units. Estimate total volume of water contained in permeate or similar quality water for dilution. This will provide 549 to and closed to expose internals to the PERACLEAN® 5. Completely Turn off power drain the system of dilute PERACLEAN® 5 solution. Thoroughly rinse the system by filling with RO permeate or similar quality water and recirculate before drainage. Repeat the process until test for incompatible equipment from piping system. activated carbon filters and lon exchange equipment. PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES ISOLATE Incompatible equipment from piping system. indicates there is less then 3 ppm peroxygen

PERACLEAN ® 5

BIOLOGICAL MATTER BETWEEN INTERMITTENT SANTITZING EP

CONTINUOUS/INTERMITTENT ADDITION TO

the system. Adjust the addition rate of PERACLEAN® 5 o or continuous addition, do not exceed, 29 ppm (1 ft. oz. of pations of water) PERACLEAN® 5. This will give 1 ppm pero

eriodically monitor residual peroxygen so that the desired

the re-growth/accumulation of biological matter. The peroxy,

system which will be effective will vary with the design and

PERACLEAN® 5, as received or diluted, may be added feed water system, between system sanitizing episodes, ppm hydrogen peroxide. For invertible theed, do not exce

oz. of product per 100 gatlons of water) PFRACLEAN® 5.

pm peroxyacetic acid and 530 ppm bydrojen peroxide

(PEROXYACETIC ACID SOLUTION)

.≧ PÈRACLEAN® 5 IS A PEROXYACETIC ACID-BASED SANITIZE DISINFECTANT DEVELOPED FOR THE FOLLOWING USES:

26.5% 4.9% 68.6% EFA ESTAB. NO: 70547-1L-001 Net curtents as stated on container EPA Reg No: 54289-3 Active Ingredents:
Hydrogen Peroxide
5 Pscyxacetic Acid
L.ert Ingredients: Retail and Wholesale Establishments Hard Surface Disinfection In: Label not for use in California Putp and Paper Wall Systems

Dispersed Pigments Cooling Water Cyclc.n. Coatings Preservation 3 c Bacteria, Fungi, Recreational Facilities Office Buildings Control in: Animal Housing Facilities
 Reverse Osmosis Membranes and L Sanitizing of Previously Cleaned Non-Porous Food Contact Surfaces in: Disinfecting Poultry Premises Poultry Hatcheries Institutional/Industrial Food and Beverage Plants •Breweries

cceptable manual cleaning and disinfection of room sun-aces Prior to fogging, remove or carefully protect all food produc

EANO 5 is for sanitizing hard room surfaces,

Do not enter room until hydrogen peroxide concentratio..s ar

and are below 1ppm, on a time weignted average.

odor characteristic of acetic acid, before having personnel

ging and for a minimum of 2 hours after fogging.

Ensure room is properly ventilated.

3.Fog areas using one quart of a 0.3% solution (3.5 ft.oz. water) per 1,000 cu. ft. of room columba. Jlow surfaces to

MISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS, AND C

before operations are resumed.

POULTRY HATCHERY DISINFECTION

all litter and droppings from floors, walls and surfaces of far

See your technical representative for specific recom <u>Benfection And Deodorizing Of Animal Housing Facil</u>

cleaning and rinsing requirements.

set or dried. Thoroughty scrub treated feed racks, troughs,

ountains and waterers with a detergent and rinse with

enclosures. Remove litter, waste matter, and gross soils and surfaces of barns, pens, stalls, chutes and other fac occupied or traversed by animals. Empty all troughs, racks rinse with water. Saturate surfaces with a 0.23% (1.5 fl. oz. PERACLEAN® 5 for a period of 10 minutes. Immerse all h other types of equipment used in handling and restraining a

watering equipment. Thoroughly

cresylic acid, and pine oils). Remove animals and feed from p

Ě

milking parlors,

Do not use in milking stalls, KENNELS, HUTCHES, ETC.)

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

DANGER

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 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice. If no skin or dotting. Take off contactinated dotting. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call poison

for a period of 10 minutes. Ventilate buildings, coops and on no not house poutry or employ equipment until treatment. Saturate surfaces with a 0.23% (1.5 ft. oz./5 gal.) solution traversed by poutry. Empty all troughs, racks and other appliances. Thoroughly clean all surfaces with a detergent control center or doctor for treatment advice. If suelle to swallow. Do not induce vorniting 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

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

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

CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through the PRECAUTIONARY STATEMENTS AZARDS TO HUMANS AND DOMESTIC ANIMALS

skin. Harmful fisvetlowed. Do not breathe vapors or spray mist. Do not get in eyes on skin or on clothing. Wear googles and or faze shield and nubber gloves when handling. Do not enter an enclosed area without proper respiratory protection. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toller. Remove contaminated clothing and wash before reuse. PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions only to use. PRACLEAN6 is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The exygen released could initiate combustion.

ENVIRONMENTAL HAZAROS Caution should be used when applying indoors because pets may This pesticide is toxic to birds, fish, and aquatic invertebrates.

be af risk. Do not discharge effluent containing this product into takes, streams, ponds, estuaries, oreans, or other waters unless in accordance with the requirements of a National Politant Discharge Elimitation System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. On of discharge effluent containing this product to sewer systems without previously 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 US Environmental Protection Agency.

STORACE AND DISPOSAL Storage and Disposal: Do not contaminate water, food, or feed by storage and disposal PESTICIDE STORAGE: Store in original containers in a cool, well-vented area, away i

PESTICIDE STORAGE: Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become ovenheated 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. Do not store in a manner where cross-contamination with

with 5 gallons of water. As eggs are gathered or prior to set as a coarse spray so as to lightly wet all shell surfaces.

NOTE: This rooking a first the coarse spray to set to lightly wet all shell surfaces.

FOR SANITIZING OF HATCHING EGGS Prepare a solution of PERACLEANO 5 by diluting 1.0 ft.

NOTE: This product at its use dilution is compatible with uminum surfaces. If product is intended to be used on

it is recommended that you apply product to a smaller test

compatibility before proceeding with its use.

employ equipment until treatment has been absorbed, set, or

scrub all treated feed racks, mangers, troughs, automatic and waterers with soap or detergent, and rinse with potable

orks, shovels, and scrapers used for removing litter and

buildings, cars, boats, and other closed spaces.

00

other pesticates or fertilizers could occur.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal fazility. 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

CONTAINER DISPOSAL: Non-refillable container. Do not reuse o rrefill this container unless the directions for use allow a different (concentrated) product to be diluted in the container.

and fresh water organisms in paper, paperboard, or non-wo and influent water systems. Suitable dosing points include to: stock chests, purpers, the white water loop and white wate

and non-food contact. PERACLEAN® 5 can be used to con

BIOFOULING CONTROL IN PULP AND PAPERMILL SYSTEMS

Containers 5 gallons or greater: Triple firse (or equivalent) promptly after emptying. Triple rinse as follows: Empty remarking contents into application equipment or mix tank. Fill the container is full with water. Replace and tighten chosures. The the container or its side and roll it back and other tensing at least, for complete revolution, for 30 seconds. Stand container on its end and tip back and toth several times. Empty insale into application equipment, mix tank, or store for disposal. Then offer for recycling, or dispose in a savitary landfall, or incineation if allowed by state and local authorities by burning.



Parsippany, New Jersey 07054-067 Manufactured by: Evonik Corporation 299 Jefferson Rd

NETACLEANO 5 should be fed continuously to incoming fine PERACLEANO 5 should be fed continuously for incoming fine 10 to 978 (200 to 20,000 ppm PERACLEAN® 5).

PERACLEAN® 5 IS A PEROXYACETIC ACID-BASED SANITIZER LAUXYACETIC ACID SOLUTION) DISINFECTANT DEVELOPED FOR THE FOLLOWING USES

Sanitzing of Previously Cleaned Non-Porous Food Contact Surfaces in: surfaces such as tables, chairs, countertops, bathroom sines shelves, rads, carts, refrigeratins, coolens sites on this label made from tendeum, why, non-porous elbar, pisatic (such) as polypopylene and polyethylene).

Institutional/Industrial

N DISINFECTION AND CLEANING

-Food and Beverage Plants
-Disinfecting Poultry Premises

Animal Housing Facilities Poultry Hatcherles

23% (1.5 R oz./5 gaž.) in hard water (400 ppm as CaCO3)
L bovine search an hard norpozous sarlazes. For hearly is a pre-cleaning step is required. Apply solution with sponge, brush, scrubber, or coarse spray device, or by NØ 5 is effective against Staphylococcus aureus. choleraesus ((ATCC10708)), Trichophyton ytes ((ATCC 9533)), and Escherichia coli 0157:H7[(ATCC then remove solution and entrapped soil with a clean wet or wet vacuum pickup. Prepare a fresh solution dally or as to wet all surfaces thoroughly. Allow to remain wet for

mes soiled or diluted

decidorize and clean inanimate, hard, surfaces such as sink tops, and furniture. In addition PERACLEANO 5 will rhage storage areas, empty garbage trins and cans, and soxied areas, a pre-cleaning step is required. Prepare a use areas which are generally hard to keep smelling fresh eas which are prone to odors caused by microorganisms. equipment that will contact food, feed, or drinking water as directed, PERACLEANO 5 is specifically design ed with potable water before reuse.

TRATION (NON-FOOD CONTACT SURFACES) OF

n for each use.

480 5 can be used for the samitization of ultra filtration, non-medical institutional/industrial reverse osmosis (RO) and their associated distribution systems. MITON AND REVERSE OSMOSIS (RO) MEMBRANES

t has been shown to be an effective disinfectant when IAC and EPA methods. This product may not allminate all nicroarganisms in reverse asmosis membranes and their hiping systems due to their construction and/or assembly,

relied upon to reduce the number of microorganisms to the eleves when exect as directed. Check with equipment the series when exect as directed. Check with equipment of series or organic bounds from the membrane or other system with an equicopriate cleaner. Flush the system stands or similar quality waters. Remove minerial deposition as acidic cleaner prior to assistancy the membranes with the All S. Flush the system again with the R.O. permeater of Ell. y water. Prepare an appropriate volume of t% solution of tyadion of PERACLEAND & to 100 gallons of water). This 49 ppm of peroxyacetic acid and 2,867 ppm hydrogen the entire water actual to be savidated with the dilute low the solution to reach a minimum of 20°C (86°F). allute solution of PERACLEAN® 5 for a minimum of ninutes. Rinse the RO system and test for residuals ere is less than 3 ppm peroxygen. Diverting product tow membrane elements to soak in the solution for

IN INON-FOOD CONTACT SURFACES) of

seconated with RO Measkakes ; equipment from piping system. This includes ry 100 gattons of solution prepared. Use RO ality water for dilution. This will provide 549 to cid and 2,967 to 4,450 ppm hydrogen peroxide. as and (on exchange equipment. Turn off power its. Estimate total volume of water contained in se stations and piping). Prepare an appropriate ERACLEAN® 5 solution through the system 3. Process usage valves should be opened ; PERACLEAMS 5 by adding 1.0 to 1.5 gallons emals to the PERACLEAN® 5. Completely PERACLEAN® 5 solution. Thoroughly rinse 10 permeate or similar quality water and re-

100% EFA ESTAB, NO: 70547-11-001 Net curtents as stated on container EPA Reg No: 54289-3 Active Ingredients:
Hydrogen Peroxide
Perunyacetic Acid
Erentingredients: Total: Silmo Hard Surface Disinfection in: Retail and Wholesale Establishments Label not for use in California Fungi, and Control in: Pulp and Paper Mill Systems Cooling Water Cyclend or Coefings Preservation or Recreational Facilities Olspersed Pigments --Office Buildings Reverse Osmosis Membranes and Ultra

Before Using This Product, Please Read This Entire Label Carefully.

KEEP OUT OF REACHOF CHILDREN 000000 DANGER

FIRST AID

If the pers. Hould eye open and rinses slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the linst 5 minutes, then continue rinsing eye. Call polson control center or doctor for treatment advice. th on skin or clothing. Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call poison

control center or doctor for beabnent advice. If swallowed: Have person sip a glass of water if able to swallow. Do not induce vorniting 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

If knatect. 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. Notebble mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS.

HAZAROS TO HUMANS AND DOMESTIC ANIMALS.

DANGER. CORROSIVE. Causes inswersible eye damage and skin luans. May be fatal if inhaled or absorbed through the ston. Harmful if swallowed. Do not been the wagen or spray mist. Do not get in eyes on skin or on clothing. Wear goggless and or face shield and nober giouse, when harmful, 50 not enter an endosed area without proper respirating youtscoon. Wesh thoroughly with scap and water after hardling and before earling, divining, chewing gurn, using tobarcoo or using the billet. Remove

containinated clothing and wash before reuse.
PHY SICAL AND CHEMICAL HAZARDS
STRONG OXIDIZING AGENT. Carrasive. Mix only with water. Product must be divided in accordance with label directions. decomposition occurs refeasing prior to use. PERACLEANQ 5 is not combusable, towever, at temperatures exceeding 150°F; coxygen. The coxygen released could initiate combusation. ENV/RONMENTAL HAZARDS

be at risk. Do not discharge eithuent containing this product into takes, streams, ponds, estivatriss, ozeans, or other waters switess in accordance with the requirements of a National Pollutant Usasharge Eithiniahan System (PDCES) permit and the permitting subjointly has been notified in writing print to discharge, o, Do not discharge eithuent containing this product to sever systems without previously notifying the local severage treatment plant authority. For guildance contact your State Water Board or Regional Office of This pesticide is toxic to birds, fish, and aquatic inventebrates. Caution should be used when applying indicors because pots may the US Environmental Protection Agency.

STORAGE AND DISPOSAL
Storage and Disposal: On not contaminate water, food, or feed by sturage and disposal.

Storage and Disposal: On not contaminate water, food, or feed by sturage and disposal.

PESTICIDE STORAGE: Silver in original containers in a cool, well-vented area, away from direct sumight. On not allow present in the more rease of increased degradation of the provinct, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a reamner where cross-contamination with

other pesticides or fertilizers could occur.

PESTICIDE DISPOSALL: Wester resulting from the use of this product may be disposed of on site or at an approved weste disposed of according to belief directions, contact your sweet disposed of according to belief directions, contact your state pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse o refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container.

Containers 5 gaillons or greater: Triple inses (or equivalent) promptly after emptying. Triple intees as follows: Empty remaining contents into application equipment or mix tank. Fill the container X full with water. Replaces and lighten obscures. The pre-container on its sides and roll a last and forth ensuring at least 1 complete recollishin, for 30 escoreds. Stand container on its end and forth several times. Empty mixed into application equipment, mix tank, or store for disposal. Then offer for recycling, or dispose in a sanitary landfill, or incineration if allowed by state and local authorities by furning.



Repeat the process until test for residuals

з орт регохудел,

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



CONTINUOUS/INTERMITTENT ADDITION TO NIMIMIZE THE ACCUMULATION OF PROLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EMSODES IN PIEMG

epstem which will be effective will vary with the design and usage characteristics in pignent starty. This will provide 14 to 10.3.5 ppm percyayacebut if the epstem residual percyayacebut is an existent and 1,500 ppm PERACLEAN® 56. The experiment of 1,500 ppm PERACLEAN® 56. The experiment of the desired effect is obtained. MILL PROCESS WHIERS For continuous seddition, to not except? 77 apm (1), it is and of power of 440. Confinitions have percyayed 55 should be fed conflicted to spen hydrogen percodice. For intelliheant feed, do not exceed 2,000 ppm (22) PERACLEAN® 56. This reape is equivalent to 0.4 to 40 (to, PERACLEAN® 56. This reape is equivalent to 0.4 to 40 (to, PERACLEAN® 56.) This reape is equivalent to 0.4 to 40 (to, PERACLEAN® 56.) This reape produced. feed water system, between system sanitizing episodes, to aid in minimizing the re-growth/accumulation of biological matter. The peroxygen residual in the PERACLEANS 5, as received or diluted, may be added continuously to the Do Not Use for Any Applications Involving Food or Orinking Water Contact. pm peroxyacetic acid and 530 ppm bychronor peroxide.

. Phas to logging, remove or carefully procent all food products and packaging, feed period. PERACLEANS 6 is for sanitizing clard room surface; as on adjunct to acceptable manual observing and disinfection of room surfaces.

fogging and for a minimum of 2 hours after fogging. Envure their is no strong odor characteristic of acetic acid, before having personnel return to work area. Ensure room is properly ventilated. Vacate all perso, nel fro, i room during Do not enter mom until hydrogen peroxide concernations are complify tested and are below topm, on a time weignited average. materials.

3.Fog areas using one quart of a 0.3% solvition (3.5 ft-or. per 3) nations of water) per 1,600 cu. ft. of root; colorian allow surfaces to drain thoroughly believe perarities are necessaries. before operations are resumed.

DISINFECTION OF POLICIBY PREMISES, TRUCKS, COOPS, AND CRATES

hove all poultry and feeds from premises, trucks, coops and crates. POULTRY HATCHERY DISINFECTION

appliances. Transvighty clean all surfaces with a detempent and rinse with water. 18 to 8.8 ppm percryacetic acid (36 to 18 Seturate surfaces with a 0.25% (1.5 ft o.2./5 gal.) solution of PERACLEAN® 5. treatment as required for maintain control. The a period of 10 minutes. Ventilate buildings, corps and other closed spaces. For TREALMENT OF RAW, **Unencessages. Do not house poutly or employ equipment until treatment has been absorbed." PERACLEAN® 5 can be applied by forgy set or dried. Thoroughly scrub treatmel feed racks, troughs, automatic feeders. public health microorganisms that may are tountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all 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 cleaning and rinsing requirements.

OSINFECTION AND DEDDORZING OF ANIMAL HOUSING FACULIES (BARNS.

and enclosures. Remove litter, waste matter, and gross soils from foors, walls and surfaces of benns, pens, stalls, chutes and other facilities and fatures occupied or traversed by animate. Empty all troughts, redx and other freefing and watering equipment. Thoroughly clean all surfaces with detergent and forse with water. Soturate surfaces with a 0.23% (1.5 ii. o.2.5 gal) solution of PEPACLEAN® 5 for a period of 10 minutes. Immerse all hatters, ropes, and K<u>swrets. Hutteres. Erc.)</u> Do not use in milking stalls, milking partors, or milk houses (for pherolics, cresylic acid, and pine olis). Remove animals and feed from premises, vehicles, other types of equipment used in handling and restraining animals, as well as buildings, cars, boats, and other closed spaces. Do not house investock or employ equipment until beatment has been absorbed, set, or dried. Thoroughly forks, shovels, and scrapers used for removing litter and manure. Ventilate sorub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

FOR SANITZING OF HATCHING EGGS
Propage a solution of PERACLEANMS 5 by deliting 1.0 % oz. PERACLEANMS 5
with 5 gallons of water. As eggs are gathered or prior in serbing, apply solution
is a coarse spray so as to fightly well all shell surfaces.

NOTE: This product at its use distribution is comparable with stainless steel and aluminum surfaces. If product is hotended 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.

BIOSOULING CONTROL IN PULP AND PAPERABLL SYSTEMS

(85-137.2 ppm peroxyacetic acid and 460-742 ppm of hydrogen peroxide) as 2.Use PERACLEAN® 5 at a dilution of 9.9 to 16.0 ft, oz per 50 gallons of water For use in the manufacture of paper and paperhoan't interned for food-contact. Xanthornov and non-food contact. PERACLEAN® 5 can be used to control bacteria, Lungi, surrogate), and fresh water organisms in paper, paperboand, or non-woven process water. 1. Remove and influent water systems. Suttable dosing points include but are not limited to: stock chests, pulpers, the white water loop and white water storage systems and influent water streams.

PERACLEAND 5 should be fed continuously to incoming fresh water streams (non-potable use only) at dosages ranging from 10 to 978 ppm peroxyazatic acid (200 to 20,000 ppm PERACLEAND 5).

PERACLEANO 5 can be used in the control of

CONTROL OF BACTERIA AND FUNGI IN HON-FOOD

silicate and diatomaceous learth used in paint and paper prod 0.3 to 1.5 fbs. (4.1 to 20.6)ft. oz.) of PERACLEAN® 5 to each 1 manufacture and storage of dispersed pigments such as kaolin double, calcium carbonate, calcium suitate, banum suitate

5 per ton (dry basis) of pulp or paper produced. Intermittently (6 to intermittently (6 to Continuous Feed - PERACLEAN® 5 should be fed continuous Feed - PERACLEAN® 5 should be 178 ppm peroxyaceêtc acid (200 to 20, PERACLEAN® 5). This range is equivalent to 0.4 to 40 fee. PERA

PERACLEANS 5 per ton (dry basis) of pulp or paper produced duri per day) at dosages ranging from 10 to 978 ppm percuyacetic acid 20,000 ppm PERACLEANO S). This dosage is equivalent to 0.4 to This dosage is equivalent to 0.4 to

-Shock Dose - PERACLEANØ 5 should be shock dosed at dosages rail from 98 to 1,956 ppm peroxyacetic acid (2,050 to 40,050 ppm PERACLE.

5). This dosage may be equivalent to 4 to 80 lbs. PERACLEANØ 5 per This dosage may be equivalent to 4 to 80 lbs. PERACL (dry basis) of putp or paper produced during the feed period.

CONTROL OF SLIME FORMING BACTERIA TO COOLING WATER SYSTEMS

[COOLING TOWERS EVAPORATIVE CONTEXNERS]...
-Severely fouled systems should be cleaned before adding the PERACLEAN.
5 solution. PERACLEAN® 5 should be added in the system directly an not mixed with any other chemicals or additives. Contamination with other chemicals could nesult in product decomposition. -Add PERACLEAN® 5 at a point in the system where uniform mixing and

-Use 0.3 to 1.5 fb. (4.1 to 20.6 ft. oz.) of PERACLEAN® 5 per 1,000 gallons of solution as a conflavous or intermittent slug treatment. This will 1.8 to 8.8 ppm percoyacetic acid (38 to 180 ppm PERACLEAN®S). even distribution will occur.

PERACLEANS 5 can be applied by logging to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegiatables during the post-harvest process. FOR TREATMENT OF RAW (UMPROCESSED FRUIT AND VEGETABLE SURFACES

odor characteristic of acetic acid before having personnel return to vork area.

Do not enter room until hydrogen peroxide concentrations are correctly tested and are below if parn on a time weighted average.

2.7co areas using one sust of a 0.2% solution 0.5f. 0.2. per 16 galloxs of water) per 1,000 cu. ft. of room volume. Allow surfaces to drain thoroughly Ensure room is properly ventilated. Vacate all personnel from room during togging and for a minimum of 2 hours after togging. Ensure there is no strong

before operations are resumed.

PERACLEAN® 5 can be applied as a dip or spray to control the growth of mon-public health midroorganism that may cause decay and/or spoulage on raw, postable health midroorganism that may be post-harvest processes. This product cash no expelied during spraying deaming processes, including at the rudier spreader, weather mainfalle, dip tank, on the brushes or elsewhere in the 1. Prepare treating solution, by diluting 3 to 3.5 ft. oz. per 16 gallons of potable water. This will provide 88 to 100 ppm of peroxyacetic acid. post-harvest process priorito, simultaneously with or after detergent wash.

2.Apply the diluted sanifizer solution using a spray directed at the fruits or vegetables, or by soaking the fruits or vegetables in the solution. Allow contact time of at least 45 seconds.

3. The treated produce can be drain dried without a potable water rinsa.

4.Do not reuse solution after treatment.

PERACLEANO 5 can be used to control the spread of citrus canker between inaminate surfaces and inamimate surfaces to plants. This product is for sanitizing surfaces such as packing house conveyors and harvesting equiphrment and confamers. This product is not for treatment of infected SURFACES TREATED TO CONTROL SPREAD OF CITRUS CANKER

Kanthomonas campestris (axonopodis) pathovars cirumelo (citrus canker PERACLEAN® 5 is an effective satilizer against microganisms such

1. Remove pross contamination with a cleaner or suitable determent and insewith potable water,

Allow santifizer to contact surface for at least one minute
 Allow to air dry, do not ninse.