

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Tiana M. Rosamilia Regulatory Manager for, Evonik Degussa Corporation 379 Interpace Parkway Parsippany, NJ 07054

SEP 1 3 2012

Subject: Peraclean 5

EPA Registration Number 54289-3 Your Amendment Dated May 17, 2012 EPA Received Date May 18, 2012

The amendment referred to above, submitted in connection with under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act, FIFRA, as amended,, to add foaming sanitization applications for previously cleaned, hard non-porous food contact surfaces, is acceptable provided that you make the following labeling revisions:

The proposed label claims are acceptable regarding use of the product, Peraclean 5, as a sanitizer with foaming application for previously cleaned hard, non-porous surfaces at 100 ppm and 180 ppm use concentrations for a contact time of 1 minute. These claims are acceptable as supported by the efficacy data provided you make the following revisions:

The following changes are recommended on the proposed label:

- 1. Under the section for Foam Sanitization, change the sentence beginning, "Examples included" to, "For example, uses that include operating conveyor belts, vertical or uneven surfaces...."
- 2. Under the "Precautionary Statements" section, change "before eating, drinking, or using tobacco" to read "before eating, drinking, chewing gum, using tobacco, or using the toilet".
- 3. Add ATCC numbers that are required for all microorganisms in one of these locations,

On the data matrix

The master label (as optional text) with the listing of the organisms As the final page of the master label (as optional text)

As the final page of the master label (as optional text)

- 4. Change the "Pseudomonas Auriginosa" to "Pseudomonas aeruginosa".
- 5. Change "E. coli 0157:H7" to "E. coli 0157:H7."
- 6. Change "Salmonella choleraesuis" to "Salmonella enteria."

The submitted efficacy data (MRID NO. 488325-10) support the use of the product, Peraclean 5, as a foaming sanitizer against Escherichia coli (ATCC # 11229) on hard, Non-porous surfaces in the presence of 400 ppm hard water for a contact time of 30 Seconds at use concentrations of 100 ppm and 180 ppm. One of the two product lots Tested was at least 60 days old at the time of testing. Bacterial reductions of at least 99.999% over the parallel control were observed within 30 second contact time. Sterility Controls did not show growth. The concentration of the active ingredient, at the time of Testing, or upon receipt is absent. This information is necessary for comparison of the Confidential Statement of Formula, to the tested product, to the proposed label.

A stamped copy of the labeling is enclosed. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

Submit and/or cite all data required for registration /reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at (703)-308-6237.

Sincerely,

Marshall Swindell

Product Manager 33

Regulatory Management Branch I Antimicrobial Division(7510P)

prepared at least tally or more often if the solution becomes diluted or soiled. PERACLEAN® 5 disinfects as it deans in one operation. PERACLEAN® 5 peroxyacetic acid samilizer is recommended for use on can be used to disinfect floors, wails and other hard horporous surfaces such <u>SANITZYDON</u> NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be precioaned surfaces such as equipment, pipelines, tanks, vals, fillers, a evaporators, passeurzers and aseptic equipment in dairies, breweries, r. wineries, beverage and food processing/packing plants, egg processing/ li used for subsequent sanitzing but may be reused for other purposes such as cleaning. FOR MANUAL OPERATIONS fresh sanitizing solutions should be effective as a sanifizer when solution is prepared in water of up to 400 ppm hardness as CaCO3. This product has demonstrated greater than a 99,999%, of survivors after a 60 second exposure period in the AOAC Germicidal and Delargent Sanitizing Action of Disinfectants study,

acid. At this cillution PERACLEAN® 5 is effective against Staphylococcus, and Estherinal coil and Salmonella typhimurium (RTCC 23564); and use against Pseudomonas Aniighoses prepare a sanitarial soution by a This will provide 180.200 ppm of percayacotic acid. Selicons of water a sprayor or circulation techniques as appropriate to the equipment. All surfaces Staphylococcus aureus and Escherichia coli, Pseudomonas - nitzing, remove gross food particles, then wash with a detergent ridlowed by a potable water rinse. Santize with a concentration of 1.15 w. 1.5 ft. oz. PERACLEANO 5 dissolved in 5 gallons of water (0.16 to 0.22% v/v concentration). This will provide 88 to 130 ppm of perceyacetic should be exposed to the sanitating 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 rivse. Aeruginosa ((ATCC 15442)) Salmonella (yphimurum ((ATCC 23564))

Remove gross food particles by a pre-scrape, a pre-fush and when necessary a presoak treatment. Wash with a recontinended detergent. Rinse with clean water. Santize in a solution of 1.0 to 1.5 ft. oz PERACLEANO 5 dissolved in 5 gallons of water. Immerse all utensits for at least 60 seconds or contact time specified by governing sanitary code. Drain and air dry, SANTIZING, EATING, DRINKING, AND FOOD PREP VIENSIS

fl. oz. PERACLEANØ 5 dissolved in 5 gallons of water. Do not exceed 0.16 Comment - Described - Comments - Comments of Comments - Inject POT Senting beloware in low temperature warevassfing machines, inject PERACLEAN® 5 into the final rines water at a concentration of 1,0 to 1,5 to 0.22% W. Air day. This will provide 88 to 130 ppm of percoxyacetic acid. To insure that the PERACLEAN® 5 sanitizer competit ation does not fall below. ppm peroxyaoetic acid, periodically test the rinse solution with a suitable test kit and adjust the dispensing rate accordingly. Consult your technical sendoe, sentiative for assistance and further information on sanitzing

FERACLEAN® 5 can be applied as a foam for leantization for previously nstuded operating conveyor belts and vertical or uneven surfaces.

Prepare a ditute PERACLEAN® 5 solution by adding 1.5 to 2.3 fl oz. per 5

After preparating the PERACLEAN® 5 solution and 1.5 to 10.0 fl.oz. of GRHO FM-2011 is the only approved fram-generating

Apply the sanitzing solution as a foam using contractially available foam nerating equipment, Allow foam to contact Surfaces at least one minute. I footbath application, allow foam to remain on boot surface for one minute.

THICROBIAL RINSE OF PRE-CLEANED OR NEW/RETURNABLE OR Orain items and or surfaces thoroughly,

reduce the number of non-pathogenic beverage spoilage organisms. M-RETURNABLE CONTAINERS:

ctive against Aspergillus versicolor, Byssochiamys fulva, Pediococcus epare PERACLEAN® 5 solution by adding 31 ft. oz. to 5 gallons potable ply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) nosus, Lactobacillus buchneri, and Saccharomyces cerevisiae. This provides 2,632 ppm peroxyacetic acid,

w containers to drain thoroughly, and then these with sterile or potable

FINAL SANITZING BOTTLE RINSE PERACLEANO 5 may be used as a final sanitizing rinse for returnable and non-returnable bodies at a 0.16 to 0.22% dilution (1.0 to 1.5 ft. oz. PERACLEANO 5 dissolved in 5 gallons of water). This will provide 88 to 130

facts, carts, retrigerators, coolers, tile and use sites on this label made from inoleum, vinyl, non-porous glazzed porcelain, plastic (such as polypropylene as tables, chairs, countertops, bathroom fixtures, sinks, bed frames, shelves, and polyethylene), stainless steel, or glass.

choleraesus, Trichophyton mentagrophytes, and Escherichia coll (0157.H7 at 0.23% (1.5 fl. o.z./5 gal.) in hard water (400 ppm as CaCO3) and 5% fetal PERACLEANO 5 is effective against Staphylococcus aureus, Salmonella bovine serum on hard nonporous surfaces. For heavify solied areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a 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 When used as directed, PERACLEANØ 5 is specifically designed to disinfect fresh solution daily or when it becomes soiled or diluted.

deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, and furniture. In addition PERACLEAN® 5 will deodorize those areas which are generally hard to keep smelling fresh such as, garbage storage areas, empty garbage bins and cans, and any other areas which are prone to odors

All beated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse.

For heavily solled areas, a pre-cleaning step is required. Prepare a fresh Solution for each use.

BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTER.

FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

PERACLEANO 5 can be used for the sentitization of ultra filtration, medical and non-medical institutionalifindustrial reverse osmosis (RO) membranes of their associated distribution systems.

This product has been shown to be an effective disinfectant when tested by AOAC and EPA nethods. This product may not eliminate all vegetative microorganisms in reverse dismosting membranes and their associated plaing systems the to their construction and/or assembly, but can be railed upon to geduce the number of microorganisms to acceptable levels when used as Check with equipment manufacturer for manbrane compatibility with PERACLEANG 5.

similar quality water. Remove mineral deposits with suitable additioned prior to sanitizing the membranes with PERACLEANO 5. Flush the system ilean, hard non-porous food contact surfaces and general environmental gallons of water). This will provide 549 ppm of peroxyacetic acid and 2,967 from-food contact) hard non-porous surfaces such as floors, walls, cellings, ppm hydrogen peroxide. Fill the entire water circuit to be sanitated where penetration and dilute solution and allow this solution to reach a minimum of 20°C (68-P) elention of product for required times is difficult to achieve. Examples Re-circulate the dilute solution of PERACLEAND 5 for a minimum of 10 Remove biological or organic fouling from the membrane or other parts of the system with an appropriate cleaner. Flush the system with RO permeate or again with the RO permeate or similar quality water. Prepare an appropriate volume of 1% solution of the product (1 gallon of PERACLEAN® 5 to 100 minutes. Allow membrane elements to sook in the solution for a minimum of 20 minutes. Rinse the RO system and test for residuals to ensure that there is less than 3 ppm peroxygen. Diverling product water to drain can reduce residuals.

BATCH SANITZATION (NON-FOOD CONTACT SURFACES) OF PIPING

<u>Systems Associated wark RO Mewasynes</u> Isolate incompatible equipment from piping system. This includes activated light units. Estimate botal volume of water contained in the system flanks, response 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 carbon filters and ion exchange equipment. Turn off power to ultraviolet gallons of solution prepared. Use RO permeate or similar quality water for diubon. This will provide 549 to 823 plm peroxyacetic acid and 2,967 to 4450 ppm hydrogen peroxide. Re-circulate the dilue PERACLEAN® 5 solution through the system for a minimum of 4 hours. Process usage valves Completely drain the system of dilute PERACLEAN® 5 solution. Thoroughly should be opened and closed to expose internals to the PERACLEANG 5. rinse the system by filling with RO permeate or similar quality water and recirculate before drainage. Repeat the process until test for residuals indicates

PERACLEAN ® 5 ©

PÈRACLEAN® 5 IS A PEROXYACETIC ACID-BASED SANITIZEŘ/ (PEROXYACETIC ACID SOLUTION) DISINFECTANT DEVELOPED FOR THE FOLLOWING USES.

THE FOLLOWING USES.	In: Active Ingredients:	.,		Total:	_	Net contents as stated on container	EPA Reg No: 54289-3	EPA ESTAB NO: 305.22
LO LO LOR	Hard Surface Disinfection In:	*Office Buildings	Retail and Wholesale Establishments	Bacteria, Fundi and on	Control in:	*Pulp and Paper Mili Systems	Cooling Water Systems	Codulys Preservation
Institutional/Industrial	Sanitizing of Previously Cleaned Non-Porous	Contact Surfaces In:	Winenes	•breweries •Food and Beverane Dianta	Oisinfecting Pourtry Premises	Poulty Hatcheries	nes and Ultra	

70253-CA-002 Before Using This Product, Please Read This Entire Label Carefully. Label not for use in California

KEEP OUT OF REACH OF CHILDREN. DANGER

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 If on skin or activing: Take off contaminated dothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call poison 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment 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 advice. If inhaled: Move person to fresh et: If person is not treatting, call gif or an ambulance, then give adficial respiration, preferably by Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER CORROSIVE. Causes inequesible eye damage and skin burns. May be fatal if inhated or absorbed through the skin.
Hamfull if swallowed. Do not breather wapors or spray mist. Do not get in eyes on skin or on clothing. Wear goggles and/or has skind. and water after handing and before eating, drinking, chewing gum, using tobacco or using the toilet. 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 prior to use. PERACLEANIS is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The

This pesticide is toxic to birds, fish, and aquatic invertebrates. Caution should be used when applying indoors because pets may be at risk. Do not discharge effuent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Politiant Discharge effuents by steam (NPDES) permit and the permitting authority has been ordified in writing prior to discharge. Do not discharge effuent containing this product to sewer systems without previously notifying the local sewage freatment plant authority. For guidance contact your State Water Board or Regional Office of the US

STORAGE AND DISPOSAL

Storage and Disposat: Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Store in original containers in a cool, well-tented area, awely from direct sunlight. Do not allow product to become overheaded in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In a case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pestiodes or fertilizers could occur.

FESTICATE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste if some site or an approved waste if disposal deality. Open dumping is prohibited. If wastes cannot be disposed of according to label directions, contact your State Pesticide of the Environmental Control Agency, or the Heazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Non-reliable container. Do not reuse or refit this container unless the directions for use allow a

Containers & gations or greater: Trible rins for equivalent promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or mix tank. Fill the containers 1 full, with water. Replace and tighten closures. Trip the container on its side and forth ensuring at least 1 complete revolution 30 seconds. Stand container on the end and to be task and forth several rins and polication equipment, mix tank, or stone for disposa. Then offer for recycling, or dispose in a

<u>Continuous/Intermittent addition to minimize the</u> BIOLOGICAL MATTER BETWEEN INTERMITENT SANITIZING

Systems Associated with RO Meneranes.
Do Not Use for Any Applications Involving Food or Drinking PERACLEANO 5, as received or diluted, may be added system which will be effective will vary with the design and us Periodically monitor residual perceygen so that the desired For continuous addition, do not exceed 20 ppm (1 ft. oz. ogallons of water) PERACL EANO 5. This will give 1 ppm per 5.3 ppm hydrogen peroxide. For intermittent feed, do not exor 11. oz. of product per 100 gallons of water) PERACLEAN® 5. PERACLEANO 3, as received to make system sanitzing episodes, leed water system, between system sanitzing episodes, the pero make matter. The pero ppm peroxyacetic acid and 530 ppm hydrogen peroxide. of the system. Adjust the addition rate of PERACL

PERACIEAN® 5 is for sanitizing hard room surfaces, a acceptable manual cleaning and disinfection of room surfaces. 1. Prior to fogging, remove or carefully protect all food produc Ensure room is properly ventilated.

odor characteristic of acetic acid, before having personnel re Do not enter room until hydrogen peroxide concentrations as 3.Fog areas using one quart of a 0.3% solution (3.5 fl. oz. water) per 1,000 cu. ft. of room volume. Allow surfaces to fogging and for a minimum of 2 hours after fogging. Ensure and are below 1ppm, on a time weighted average. before operations are resumed,

DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS, AND OF

Pourtry Harchery Diswection
Remove all poultry and feeds from premises, trucks, coops an all litter and droppings from floors, walls and surfaces of fac traversed by poulty. Empty all troughs, racks and other fee Appliances. Thoroughly clean all surfaces with a detergent an Saturate surfaces with a 0.23% (1.5 ft. oz./5 gal.) solution of for a period of 10 minutes. Ventilate buildings, coops and off Do not house poultry or employ equipment until treatment he fountains and waterers with a detergent and rinse with pot Thoroughly scrub treated feed racks, troughs, reuse. See your technical representative for specific i

DISINFECTION AND DECOURIZING OF ANIMAL HOUSING FACI KENNELS, HUTCHES, ETC.)

Cresylic acid, and pine oils). Remove animals and feed from p and 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 and watering equipment. Thoroughly clean all surfaces w rinse with water. Saturate surfaces with a 0.23% (1.5 ft. oz. other types of equipment used in handling and restraining a PERACLEANG 5 for a period of 10 minutes. Immerse at forks, shovels, and scrapers used for removing litter and scrub all treated feed racks, mangers, troughs, automatic f and waterers with soap or detergent, and rinse with potable employ equipment until treatment has been absorbed, set, buildings, cars, boats, and other closed spaces. Do not use in milking stalls, milking partors,

Prepare a solution of PERACLEAN® 5 by diluting 1.0 ft. oz. FOR SANITIZING OF HATCHING EGGS

with 5 gallons of water. As eggs are gathered or prior to set NOTE: This product at its use dilution is compatible with ; aluminum surfaces. If product is intended to be used on it is recommended that you apply product to a smaller test as a coarse spray so as to lightly wet all shell surfaces. compatibility before proceeding with its use.

For use in the manufacture of paper and paperboard internet and non-lood contact. PERACLEAN® 5 can be used to corr and fresh water organisms in paper, paperhoard, or non-wo and influent water systems. Suitable dosing points include to: stock chests, pulpers, the white water loop and white water into and influent water streams. BIOFOULING CONTROL IN PULP AND PAPERMILL SYSTEMS

PERACLEAN® 5 should be fed continuously to incoming in (non-potable use only) at dosages ranging from 10 to 978 acid (200 to 20,000 ppm PERACLEAN® 5).

Manufactured by: Evonik Degussa Corporation 299 Jefferson Rd

G EVOLIK

Tay be used as a first samitizing rinse for returnable bottles at a 0.16 to 0.22% dilution (10 to 1.5 ft. oz. ssolved in s naturis of water). This will provide 89 to 130

ountertops, bathroom fixtures, slnks, bed frames, shelves, szeters, coolers, tile and use sites on this label made from thorous glazed porcelain, plastic (such as polypropylene typorous glazed porcelain, plastic (such as polypropylene). isinfects as it cleans in one operation. PERACLEAN® 5 ifect floors, walls and other hard nonporous surfaces such

NFECTION AND CLEANING stainless steel, or glass.

equired. Apply solution with mop, cloth, sponge, brush se spray device, or by soaking so as to wet all surfaces to remain wet for 10 minutes, then remove solution and i a clean wet mop, cloth, or wet vacuum pickup. Prepare a is effective against Staphylococcus aureus, Salmonella nophylon mentagrophytes, and Escherichia coli 0157:H7 25 gal, in hard water (400 ppm as CeCO3) and 5% fetal 1,5 gal, in hard water (400 ppm as CeCO3) and 5% fetal lard nonporous surfaces. For heavily solled areas a pre-

to keep smelling fresh such as, garbage storage areas, in inanimate, hard, surfaces such as walls, floors, sink tops, ddition PERACLEAN® 5 will deodorize those areas which is and cans, and any other areas which are prone to odors scted, PERACLEAN® 5 is specifically designed to disinfect. or when it becomes soiled or diluted.

areas, a prè-cleaning step is required. Prepare a fresh ient that will contact food, feed, or drinking water must be y water before reuse.

2N (NON-FOOD CONTACT SURFACES) OF ULTRA. EVERSE OSMOSIS (RO) MEMBRANES.

iber of microorganisms to acceptable tevels when used as with equipment manufacturer for membrane compatibility construction and/or assembly, but can be relied upon been shown to be an effective disinfectant when tested reverse osmosis membranes and their associated piping can be used for the sanitization of ultra filtration, medical institutional/industrial reverse osmosis (RO) membranes a methods. This product may not eliminate all vegetative ad distribution systems.

embrane elements to soak in the solution for a minimum inse the RO system and test for residuals to ensure that Militte solution of PERACLEAN® 5 for a minimum of 10 This will provide 549 ppm of peroxyacetic acid and 2,967 This will provide 549 ppm of peroxyacetic acid and 2,967 roxide. Fill the entire water circuit to be santitzed with the utton of the product (1 gallon of PERACLEAN® 5 to 100 solution to reach a minimum of 20°C (68°F). 3 ppm peroxygen. Diverting product water to drain can l or organic fouling from the membrane or other parts of the propriate cleaner. Flush the system with RO permeate or permeate or similar quality water. Prepare an appropriate er. Remove mineral deposits with suitable acidic cleaner the membranes with PERACLEAN® 5. Flush the system

ON (NON-FOOD CONTACT SURFACES) OF PIPING

is system for a minimum of 4 hours. Process usage valves 1 and closed to expose internals to the PERACLEANO 5. the system of duthe PERACLEANO 5 solution. Thoroughly provide 549 to 823 ppm peroxyacetic acid and 2,967 to prepared. Use RO permeate or similar quality water for gen peroxide. Re-circulate the dilute PERACLEAN® 5 by filling with RO permeate or similar quality water and re-We equipment from plping system. This includes activated ion exchange equipment. Turn off power to ultraviolet piping). Prepare an appropriate volume of 1.0 to 1.5% by adding 1.0 to 1.5 gallons of the product for every 100 ate total volume of water contained in the system (lanks, anage. Repeat the process until test for residuals indicate NED WITH RO MEMBRANES

PÈRACLEAN® 5 IS A PEROXYACETIC ACID-BASED SANITIZEŔ/ (PEROXYACETIC ACID SOLUTION) PERACLEAN ® 5

26.5% 4.9% 68.6% 8 Net contents as stated on container DISINFECTANT DEVELOPED FOR THE FOLLOWING USES: Active Ingredients: Hydrogen Peroxide Peroxyacetic Acid Inert Ingredients: Total: Hard Surface Disinfection in: Industrial Facilities -Office Buddings -Recreational Facilities -Retail and Wholesale Establishments Slime Bacteria, Fungi, and Control in:

Sanitizing of Previously Cleaned Non-Porous Food Contact Surfaces in:

Institutional/Industrial

Label not for use in California Dispersed Pigments Cooling Water Systems -Coatings Preservation

Reverse Osmosis Membranes and Ultra

Animal Housing Facilities

Food and Beverage Plants
 Disinfecting Poultry Premises
 Poultry Hatcheries

Pulp and Paper Mill Systems

EPA ESTAB. NO: 70547-IL-001 70253-CA-002 EPA Reg No: 54289-3

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

DANGER

fin eyes. Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first fin eyes. Hold eye open and rinse slowly and gently with verter or doctor for treatment advice. Finnutes then continue rinsing eye. Call polson control center or doctor for treatment advice. Call polson if on skin or dothing. Take off contaminated dothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call polson if on skin or dothing.

center or doctor. Do not give anything by mouth to an unconscious person. Call 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 If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by 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 control center or doctor for treatment advice.

mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS

- HAZARDS TO HUMANS AND DOMESTIC ANIMANS and skin burns. May be fatal if inhaled or absorbed through the skin.

- PAZARDS TO HUMANS AND DOMESTIC ANIMANS inversible eye damage and skin burns. May be fatal if inhaled or absorbed through the skin.

- Lannull is wallowed. Do not breathe vapors argary ritst. Do not get in eyes on skin or on orbitoring was sharb throughly with soap and nubber gives when handling. Do not enter an enclosed area without proper respiratory protection. Wash throughly with soap and water after handling and before eating, drinking, chewing gurn, using tobacco or using the ballet. Remove contaminated dothing and water after handling and before eating.

STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label drections prior sTRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be seen proceeding 156°F, decomposition occurs releasing oxygen. The to use. PERACLEAN® 5 is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The and wash before reuse. PHYSICAL AZARDS

oxygen released could initiate combustion. ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds, fish, and aquatic invertebrates. Caution should be used when applying indoors because pets may be at risk. Do not discharge effluent containing this product into lakes, treams, poinds, estuanes, cocars, or other waters unless in be at risk. Do not discharge effluent brisk and the permitting authority accordance with the requirements of a National Pollutant Discharge Effund System (NPDES) permit and the permitting authority has been rotified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously not be used to require the 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 US notifying the local sewage treatment plant authority. Environmental Protection Agency.

Storage and Disposal: Do not contaminate water, root, or neeu uy sur age anu verycome.

PESTICIDE STORAGE: Store in original containers in a cool, well-welled area, away from direct sunlight. Do not allow product persons product effectiveness personal in any cause increased degradation of the product, which will decrease product effectiveness to become overheaded in storage. This may cause increased degradation of the product, which will observe pestidios or to become overheaded in storage. n case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides of Do not contaminate water, food, or feed by storage and disposal.

fertilizers could occur.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste PESTICIDE DISPOSAL: Wastes reamon be disposed of according bable identions, comfact your State Pesticide disposal facility. Open dumping is prohibited, if wastes cannot be disposed accorder EPA Regional Office for guidance. or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. CONTAINER DISPOSAL: Non-refiliable container. Do not reuse o 1 refill this container unless the directions for use allow a CONTAINER DISPOSAL:

contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and bighten closures. Tip the container on its side and or mix tank. Fill the container on the side and of the the container on the side and of the the service of the container on the side and of the the service of the service Containers 5 gallons or greater: Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining

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

<u>Biological Matter Between Interwittent Sanitizing Episodés in Piping. 1</u>

For continuous addition, do not exceed 20 ppm (1 ft. oz. of product per 440 -Continuous Feed - PERACLEAN® 5 should be fed continuously at gallons of water) PERACLEAN® 5. This will give 1 ppm peroxyacetic acid (200 to 20,000 ppm 5.3 ppm hydrogen peroxide. For intermittent feed, do not exceed 2,000 ppm (23 PERACLEAN® 5). This rapid peroxide. For intermittent feed, do not exceed 2,000 ppm (23 PERACLEAN® 5). This rapid give 100 gallons of water) PERACLEAN® 5. This will give 100 5 sper ton (dry basis) of puig or pager produced. of the system. Adjust the addition rate of PERACLEAN® 5 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained periodically monitor residual peroxygen so that the desired sile of product per 440 For continuous addition, do not exceed 20 ppm (1 ii. oz. of product per 440 min.) Systems Associated with RO Mediashales. The bond to brinking Water Contact. The Use for Any Applications Involving Food or Drinking Water Contact. BOND Use for Any Applications Involving Food or Drinking Water Continuously to the PERACLEAN® 5, as received or difluted, may be added continuously to the Bed water system, between system sanitizing episodes, to add in minimizing the re-growth/accumulation of biological matter. The percoxygen residual in the system which will be effective will vary with the design and usage characteristics

1. Prior to togging, remove or carefully protect all food products and packaging

togging and for a minimum of 2 hours after togging. Ensure there is no strong odor characteristic of acetic acid, before having personnel return to work area Vacate all personnel from room during Do not enter room until hydrogen peroxide concentrations are correctly tested 2.Ensure room is properly ventilated. materials.

and are below topm, on a time weighted average. 3.Fog areas using one quart of a 0.3% solution (3.5 ft, oz, per 10 gallons of warely per 1,000 cu. ft. of room volume. Allow surfaces to drain thoroughly before operations are resumed.

DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS, AND CRATES

Saturate surfaces with, a 0.23% (1.5.ft o.2.5 gib), souldnot of PERACLEAN® 5 beament as required to maintain control.

for a period of 10 minutes. Ventilate buildings, coops and other dosed spaces. For I REALMENT of RAW, DIFFOCESSO FRUIT AND VEGETABLE SURFACES OF the provided of 10 minutes. Ventilate buildings, coops and other dosed spaces. FOR ACLEAN® 5 can be applied by togging to control the growth of non-thouse poultry or employ equipment until treatment has been absorbed. PERACLEAN® 5 can be applied by togging to control the growth of non-set or enter. Thoroughly scrub treated feed racks, troughs, automatic feeders, public head in microorganisms or 1.1 mm/ 3 aces and/or spoilage on raw, found and waterers with a detergent and hisse with potable water before post-harvest fruits and vegetables Juting Cae post-harvest process, found and the personnel from room during raise. See your technical representative for specific recommendations for all 1. Ensure room is properly ventilated. Vacate all personnel from room during rearouve an powary and reeds from premises, roucks, coops and crates. remove even usurouvan win uccur. all titter and droppings from floors, walls and suffaces of facilities occupied or -Uses, 0.3 ก. (4.1 to 20.6 ค.ค.ร.) ก. PERACLEAN® 5 per 1,000 gallons traversed by poultry. Empty all troughs, racks and other feeding and watering of solution: as a continuous or intermittent slug treatment. This will provide appliances. Thoroughly clean all surfaces with a detergent and rinse with water. cleaning and rinsing requirements.

DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACUTIES (BARNS).

PERACLEAN® 5 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forther showels, and scrapers used for removing litter and manure. Ventilate forts, showels, and scrapers used for removing litter and manure. buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dired. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse. occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with detergent and ninse with water. Saturate surfaces with a 0.23% (1.5 ft. oz.15 gal.) solution of Do not use in milking statis, milking pariors, or milk houses (for phenotics, cresylic acid, and pine oits). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fortures KENNELS, HUTCHES, ETC.)

PERACLEAND 5 is an effective sentitive against microoganisms such a BDFDUING CONTROL IN DULP AND PAPERMILL SYSTEMS

For use in the manufacture of paper and paperboard intended for tood-contact. Xanthoronsa-Read-BDR-Read-BDR-Read-BDR-Read-BDR-Read-BDR-Read-BDR-Read-BDR-Read-BDR-Read-BDR-Read-BDR-Read-BDR-READ and influent water streams.

PERACLEANS 5 should be fed confinuously to incoming fresh water streams. (non-potable use only) at dosages ranging from 10 to 978 ppm perceyacetic acid (200 to 20,000 ppm PERACLEAN® 5). INPLUENT WATER SYSTEMS

0.3 to 1.5 lbs. (4.1 to 20.8 ht. oz.) of PERACLEAN® 5 to each 1,000 lbs. of pgment surry. This will provide 14.6 to 73.5 ppm peroxyacetic acid (300 to manufacture and storage of dispensed plgments such as kaolin dray, ditanium dioxide, calcium sulfate, magnesium dioxide, calcium sulfate, magnesium CONTACT DISTERSED PLEMENTS

PERACLEAN® 5 can be used in the control of bacteria and fungi in the PERACLEAN® 5 can be used in the control of packets and fungiven. silicate and diatomaceous earth used in paint and paper production. 1,500 ppm PERACLEAN® 5).

EQGING

PERACLEAN® 5 is for sanitating hard room surfaces, as an adjunct to PERACLEAN® 5 per ton (dry basis) of pulp or paper produced during the acceptable manual deaming and disinfection of room surfaces.

Shock Dose - PERACLEAN® 5 should be shock dosed at dosages ranging shock dosed at dosages ranging through to 1956 ppm percypactic, and 12,000 to 40,000 ppm PERACLEAN® 10,000 to 40,000 ppm PERACLEAN® 5). This dosage may be equipalent to 4 in 80 lbs. PERACLEAN® 5 per ton 5). This dosage may be equipalent to 4 in 80 lbs. PERACLEAN® 5 per ton (dry basis) of pulp or paper produced during the feed period.

CONTROL OF SIME FORMING BACTEEN TO COOLING WATER SYSTEMS.

(COOLING TOWERS EMPORTINE CONDENSERS).

Serviny 'c' ric' 1, ysterns should be chaned before adding the PERACLEAN® 5. should be added in the system directly and 5. su, zionor 'PEFACLEAN® 5. should be added in the system directly and of servinor. 'PEFACLEAN® 5. should be added in the system directly and finited with any other chemicals of additives. Contamination with other not (nixed with any other chemicals, of additives. S. Add PET ACLE LVID 5 and point in the system where uniform mixing and chemicals could result in product decomposition.

Do not enter room until hydrogen peroxide concentrations are correctly tested odor characteristic of acetté acid before having personnel return to work area.

2.Fog areas using one quart of a 0.2% solution (3.5.fl. oz. per 16 gallons of water) per 1,000 cu. ft. of room volume. Allow surfaces to drain thoroughly water) per 1,000 cu. ft. of room volume. and are below 1 ppm on a time weighted average.

PERACLEAN® 5 can be applied as a dip or spray to control the growth of non-public health microorganisms that may cause decay and/or spoilage on non-public health microorganisms that may cause decay and/or spoilage on non-public health microorganisms that we getables during the post-harvest fruits and vegetables during the post-harvest process. This product can be applied during physical cleaning processes, including at the roller spreader, washer mainfold, dip tank, on the brushes or elsewhere in the post-harvest process prior to, simultaneously with or after detergent wash. before operations are resumed.

1. Prepare treating solution by diluting 3 to 3.5 ft. oz. per 16 gallons of potable water. This with provide 88 to 100 ppm of peroxyacetic acid. water. This with provide 88 to 100 ppm of peroxyacetic acid. 2. Apply the diluted santitaes solution using a spray directed at the fruits or vegetables, or by soaking the fruits or vegetables in the solution. Allow a

3. The treated produce can be drain dried without a potable water rinse. 4.Do not reuse solution after treatment. contact time of at least 45 seconds.

were a gamens or water. As eggs are gamered or prior to setting, apply solution SUGGAGES IREATED TO CONTROL SPREAD OF CITUS CANKER as a coarse spread or said of the spread of citus canker as a coarse spread or said bightly were all shell surfaces.

NOTE: This product at its used dilution is compatible with stainless steel and between trainfacts and interminate surfaces to plants. This product at the used dilution is compatible with stainless steel and between trainface and interminate surfaces to plants. This product is intended to be used on any other surface, is for sanitizing surfaces such as packing house conveyors and harvestim is any few months of informations. The conduct is intended to a smaller test area to determine, enumerated and containers. The conduct is not few months and information and containers.

2.19.27 EFFACL EANNO 5 as a almitton to 12 as a viv. ... of hydrogen percentals 155-137. Upopper synchropic and 460-742 ppm of hydrogen percentals 155-137. On the property of registered under EPA Reg. No. 5(389-3 Fungicide, and Rodenticide Act as