54299-4







UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

OCT 1 5 2014

Ms. Tiana M. Rosamilia Regulatory Manager for, Evonik Degussa Corporation 299 Jefferson Road Parsippany, NJ 07054

Subject:

Label Amendment

Product Name: Peraclean R 15 EPA Registration Number: 54289-4 Application Date: July 18, 2014 Decision Number: 493476

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). If you have any questions, please contact Karen M. Leavy by phone at (703)-308-6237, or via email at Leavy.Karen@epa.gov.

Sincerely,

Seiichi Murasaki

Acting Product Manager 33
Regulatory Management Branch I
Antimiarabiala Division (7510B)

Antimicrobials Division (7510P)
Office of Pesticide Programs

Date: October 15, 2014

Directions Fox use It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

SANITZATION
NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be used for subsequent sanitizing but may be reused for other purposes such

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 effective as a sanitizer when solution is prepared in water of up to 400 ppm eduction of survivors after a 30 second exposure period in the AOAC on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, This product is hardness as CaCO3. This product has demonstrated greater than a 99.999% evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/ Germicidal and Detergent Sanitizing Action of Disinfectants study packing equipment surfaces, and eating establishments.

SANITIZING FOOD CONTACT SURFACES

0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of v/v concentration). This will provide 88 ppm of peroxyacetic acid. At this dilution PERACLEAN® 15 is effective against Staphylococcus aureus and Escherichia coli. Use immersion, coarse spray or circulation techniques appropriate to the equipment. All surfaces should be exposed to the sanitizing solution for a period of at least 60 seconds or more if specified by Effective against Staphylococcus aureus and Escherichia coli. gover - anitary code. Drain thoroughly. Do not rinse.

SATING, DRINKING, AND FOOD PREP UTENSILS

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

ounce PERACLEAN® 15 dissolved in 5 gallons of water. Do not exceed sanitizing tableware in low temperature warewashing machines, inject PERACLEAN® 15 into the final rinse water at a concentration of 0.33 fluid 0.053 % v/v. This will provide 88 ppm of peroxyacetic acid. Air dry.

technical service representative for assistance and further information on animal life science laboratories, industrial facilities, dietary areas, office sanitizing tableware in warewashing machines.

FINAL SANITIZING BOTTLE RINSE

PERACLEAN® 15 may be used as a final sanitizing rinse for returnable and non-returnable bottles at a 0.053% dilution (0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water). This will provide 88 ppm of peroxyacetic

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

AND REVERSE OSMOSIS (RO) MEMBRANES

and non-medical institutional/industrial reverse osmosis (RO) membranes PERACLEAN® 15 can be used for the sanitization of ultra filtration, medical

Inct has been shown to be an effective disinfectant when tested by records and EPA methods. This product may not eliminate all vegetative systems due to their construction and/or assembly, but can be relied upon reduce the number of microorganisms to acceptable levels when used as Check with equipment manufacturer for membrane compatibility luct has been shown to be an effective disinfectant when tested microorganisms in reverse osmosis membranes and their associated piping with PERACLEAN® 15.

minutes. Allow membrane elements to soak 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 per oxygen. Diverting product water to drain can volume of 1% solution of the product (0.33 gallon of PERACLEAN® 15 to 100 gallons of water). This will provide 568 ppm of peroxyacetic acid and 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 similar quality water. Remove mineral deposits with suitable acidic cleaner orior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate 834 ppm hydrogen peroxide. Fill the entire water circuit to be sanitized with 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 reduce residuals.

BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES

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. Resirculate the dilute PERACLEAN® 15 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% solution through the system for a minimum of 4 hours. Process usage valves Completely drain the system of dilute PERACLEAN® 15 solution. Thoroughly rinse the system by filling with RO permeate or similar quality water and This includes activated carbon filters and ion exchange equipment. Turn off power to ultraviole PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every should be opened and closed to expose internals to the PERACLEAN® 15. recirculate before drainage. Repeat the process until test for residuals indicates there is tess then 3 ppm peroxygen.

CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF

BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN

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. PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT continuously to the feed water system, between system sanitizing episodes, do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water peroxygen so that the desired effect is obtained. For continuous addition, peroxygen residual in the system which will be effective will vary with the to aid in minimizing the regrowth/ accumulation of biological matter. The design and usage characteristics of the system. Adjust the addition rate PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm of PERACLEAN® 15 or the solution and periodically monitor residual SURFACES) PERACLEAN® 15, as received or diluted, may be added

HARD SURFACE DISINFECTION

PERACLEAN® 15 disinfects as it cleans in one operation. PERACLEAN® shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, nonporous glazed porcelain, plastic (such as polypropylene and polyethylene), 15 can be used to disinfect floors, walls and other hard nonporous surfaces such as tables, chairs, countertops, bathroom fixtures, sinks, bed frames,

Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and below 48 ppm peroxyacetic acid, periodically test the rinse solution with a nursing services; autopsy facilities. Also, use PERACLEAN® 15 in nursing sultable test kit and adjust the dispensing rate accordingly. Consult your homes, other health-care facilities, schools, colleges, veteninary clinics, To insure that the PERACLEAN® 15 sanitzer concentration does not fall obstetrical suites; housekeeping services; physical therapy departments; below 46 ppm peroxyacetic acid, periodically test the rinse solution with a nursing services; autopsy facilities. Also, use PERACLEAN® 15 in nursing buildings, recreational facilities, retail and wholesale establishments. stainless steel, or glass.

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

COMBINATION DISINFECTION AND CLEANING PERACLEANO 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia coli 0157:H7 at 0.08% (0.5 fl. oz./5 gal.) in hard water (400 ppm as CaCO3) and 5% fetal bovine serum on hard nonporous surfaces. For cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to solution and entrapped soil with a clean wet mop, cloth, or wet vacuum vet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove hatcheries, and livestock quarters. When used as directed, PERACLEAN® runs, cages, and feeding and watering equipment. In addition PERACLEAN® 15 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 heavily soiled areas a pre-cleaning step is required. Apply solution with mop, PERACLEANO 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 15 is specifically designed to disinfect, deodorize and clean inanimate, hard pickup. Prepare a fresh solution daily or when it becomes soiled or diluted. areas which are prone to odors caused by microorganisms

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

All treated equipment that will contact food, feed, or drinking water must be

PERACLEAN ® 15 ©

DISINFECTION OF POULTRY PREMISES, TRUCK!

Remove all litter and droppings from floors, walls and su occupied or traversed by poultry. Empty all troughs, racks and watering appliances. Thoroughly clean all surfaces wi

POULTRY HATCHERY DISINFECTION
Remove all poultry and feeds from premises, trucks,

of PERACLEAN® 15 for a period of 10 minutes. Ventilat and other closed spaces. Do not house poultry or empli racks, troughs, automatic feeders, fountains and waterer

Saturate surfaces with a 0.08% (0.5 ft.

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

Institutional/Industrial	Hard Surface Disinfection	Bacteria, Fungi,	Active Ingredients:	
Sanitizing of Previously	ü	and Slime	,	
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	89-4
 Reverse Osmosis Membranes 	 Retail and Wholesale 		EPA ESTAB. 'NO:	ö
and Ultra Filtration	Establishments		70253-CA-002,	
			70547-IL-001	
	HO OF THE RESERVE THE SECTION OF THE	1		

and rinse with potable water before reuse. See your techn for specific recommendations for all cleaning and rinsing re DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FAC Kenne<u>us, Hurones, Erc.)</u> Do not use in milking stalfs, milking parlors, or milk hou

treatment has been absorbed, set or dried. Thoroughly

Remove animals and fer

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

house livestock or employ equipment until treatment he automatic feeders, fountains, and waterers with soap or di

set, or dried. Thoroughly scrub all treated feed racks,

detergent and rinse with water. Saturate surfaces with a (gal.) solution of PERACLEAN® 15 for a period of 10 min

and fixtures occupied or traversed by animats. Empty all other feeding and watering equipment. Thoroughly clean

floors, walls and surfaces of barns, pens, stalls, chutes

vehicles, and enclosures. Remove litter, waste matter,

cresylic acid, and pine oils).

halters, ropes, and other types of equipment used in hand manure. Ventilate buildings, cars, boats, and other close

animals, as well as forks, shovels, and scrapers used for

Label not for use in California

Fineyes: 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 inising eye. Call poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call poison control center or doctor for treatment advice.

aluminum surfaces. If product is intended to be used on

setting, apply solution as a coarse spray so as to lightly we NOTE: This product at its use dilution is compatible with

Prepare a solution of PERACLEAN® 15 by diluting PERACLEAN® 15 with 5 gallons of water. As eggs are

FOR SANITIZING OF HATCHING EGGS

with potable water before reuse.

FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VEC PERACLEAN® 15 can be applied as a dip or spray to

compatibility before proceeding with its use.

of non-public health microorganisms that may cause dec on raw, post-harvest fruits and vegetables during the was product can be applied during physical cleaning process

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 it is recommended that you apply product to a smaller tes doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for beatment advice. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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

TO HUMANS AND DOMESTIC ANIMALS

handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contamhated clothing and wash before water. This will provide 85 ppm peroxyacetic acid and 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 nubber gloves when handling. Do not enter an enclosed area without proper respiratory protection. Wash thoroughly with soap and water after DANGER. CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through the skin. Harmful

1. Prepare treating solution by diluting 1 fluid ounces per 16

the washing process prior to, simultaneously with or after

roller spreader, washer manifold, dip tank, on the brush-

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. PERACLEAN® 15 is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate combustion.

ENVIRONMENTAL HAZARDS

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

FOR THE TREATMENT OF PROCESSED FRUITS AND VEGET PROCESS WATERS TO CONTROL GROWTH OF NON-PUBLIC

The treated produce can be drain dried without a potable

contact time of at least 45 seconds.

4.Do not reuse solution after treatment.

or vegetables, or by soaking the fruits and vegetables in the

2. Apply the diluted sanitizer solution using a coarse spray

Apply the diluted sanitizer solution as a spray or dip. A of at least 45 seconds. No rinse following application is compiles with the requirements of 21 CFR173.315 (a) 5 3. The treated produce can be drain dried without a potabl

1.Do not reuse solution after treatment.

1. Prepare treating solution by diluting 1.5 fluid ounces potable water. This will provide 80 ppm peroxyacetic



Evonik Comoration 2

Parsippany, New Jersey 07054-0677 299 Jefferson Rd

G EVOLIK



his will provide 554 to 840 ppm peroxyacetic acid and 813 to drogen peroxide. Recirculate the dilute PERACLEAN® 15 and ion exchange equipment. Turn off power to ultraviolet stimate total volume of water contained in the system (tanks, and piping). Prepare an appropriate volume of 0.33 to 0.5% gh the system for a minimum of 4 hours. Process usage valves sned and closed to expose internals to the PERACLEANØ 15. ain the system of dilute PERACLEANØ 15 solution. Thoroughly tem by filling with RO permeate or similar quality water and satible equipment from piping system. This includes activated © 15 by adding 0.33 to 0.5 gallons of the product for even solution prepared. Use RO permeate or similar quality water ifore drainage. Repeat the process until test for residuals e is less then 3 ppm peroxygen

INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF

EMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT AATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN

oxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid aduct per 100 gallons of water) PERACLEAN® 15. This will to the feed water system, between system sanitizing episodes 17 ppm (0.33 fluid ounce of product per 440 gallons of water 10 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm that the desired effect is obtained. For continuous addition, nizing the regrowth accumulation of biological matter. The sidual in the system which will be effective will vary with the sage characteristics of the system. Adjust the addition rate ANO 15 or the solution and periodically monitor residual :RACLEAN® 15, as received or diluted, may be added peroxyacetic acid and 160 ppm hydrogen peroxide

10 15 disinfects as it cleans in one operation. PERACLEAN® 3s, chairs, countertops, bathroom fixtures, sinks, bed frames, s, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, nond porcetain, plastic (such as polypropylene and polyethylene), ed to disinfect floors, walls and other hard nonporous surfaces

uites; housekeeping services; physical therapy departments; ces; autopsy facilities. Also, use PERACLEAN® 15 in nursing in hospitals: PERACLEAN® 15 may be used for surgical and cience laboratories, industrial facilities, dietary areas, office reational facilities, retail and wholesale establishments.

lay be used to preclean or decontaminate critical ritical medical devices prior to sterifization or ifectant on any surface or instrument that (1) is d directly into the human body, either into or in ith the bloodstream or normally sterile areas of uct is not to be used as a terminal sterilant/high or (2) contacts intact mucous membranes but ss not ordinarily penetrate the blood barrier or enter normally sterile areas of the body. This disinfection.

A DISINFECTION AND CLEANING

, Pseudomonas aeruginosa, Trichrophyton mentagrophytes, and xxii O157:H7 at 0.08% (0.5 ft. oz./5 gal.) in hard water (400 ppm and 5% fetal bovine serum on hard nonporous surfaces. For VO 15 is effective against Staphylococcus aureus, Salmonella d areas a pre-cleaning step is required. Apply solution with mop, b, brush, scrubber, or coarse spray device, or by soaking so as to th as walls, floors, sink tops, furniture, operating tables, kennel and feeding and watering equipment. In addition PERACLEAN® as thoroughly. Allow to remain wet for 10 minutes, then remove entrapped soil with a clean wet mop, cloth, or wet vacuum VØ 15 is designed for use in animal hospitals, animal laboratories, and livestock quarters. When used as directed, PERACLEAN® t shops, zoos, pet animal quarters, poultry premises, poultry sally designed to disinfect, deodorize and clean inanimate, hard nize those areas which are generally hard to keep smelling frest hare a fresh solution daily or when it becomes soiled or diluted.

soiled areas, a pre-cleaning step is required. Prepare a fresh otable water before reuse.

quipment that will contact food, feed, or drinking water must be

lage storage areas, empty garbage bins and cans, and any othe

PERACLEAN ®

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

Institutional/Industrial	Hard Surface Disinfection	Bacteria, Fungi,	Active Ingredients:	
Sanitizing of Previously	Ë	and Slime		
Cleaned Non-Porous	•Hospitals	Control in:	Hydrogen Peroxide	22.0%
Food Contact Surfaces in:	 Health Care Facilities 	Pulp and Paper	Peroxyacetic Acid	15.0%
	•Schools	Mill Systems	Inert Ingredients:	63.0%
	-Colleges	Dispersed Pigments		ı
	 Veterinary Clinics 	 Cooling Water Systems 	Total:	100%
 Food and Beverage Plants 	 Animal Life Science Laboratories 	Coatings Preservation	Net contents as stated	20
 Disinfecting Poultry Premises 	 Industrial Facilities 		on container	
	Office Buildings			
 Animal Housing Facilities 	Recreational Facilities		EPA Reg No: 54289-4	289-4
Reverse Osmosis Membranes	 Retail and Wholesale 		EPA ESTAB.	Ö
	Establishments		70253-CA-002,	
			70547-11.004	

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

Label not for use in California

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 insing eye. Call poison control center or doctor for treatment advice.
If on skin or clothing. Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. 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 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. f 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.

PRECAUTIONARY STATEMENTS

DANGER. CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through the skin. Harmful if swalbweb. O not bratten exports or grapy mist. Do not get in eyes on skin or onderling. When goggles and/or face shield and rubber glowes when handling. Do not enter an endocad area without proper respiratory protection. Wesh thoroughly with sop and water after handling of not enter an endocad area without proper respiratory protection. Wesh thoroughly with sop and water after handling and before eating, drinking, chewing gut, u, saing tobacco or using the fuller. Remove contaminated orbiting and wash before

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. PERACLEAN® 15 is not combustible; however, at lemperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate combustion.

ENVIRONMENTAL HAZARDS

the requirements of a National Pollutant Discharge Elimination System (NPDES) parmit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the US Environmental Protection Agency. This pesticide is toxic to birds. fish, and aquatic inventebrates. Caution should be used when applying indoors because pets may be at risk. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, or other waters unless in accordance with





Parsippany, New Jersey 07054-0577 Manufactured by:
Evonik Corporation 299 Jefferson Rd

07-17-14
POULTRY PREMISES, TRUCKS, COOPS AND DISINFECTION C

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

influent water streams. and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.06% (0.5 ft. oz/5 gal.) solution Remove all litter and droppings from foors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until reatment has been absorbed, set or dried. Thoroughly scrub treated feed and rinse with potable water before reuse. See your technical representative racks, troughs, automatic feeders, fountains and waterers with a detergent for specific recommendations for all cleaning and rinsing requirements.

DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS.

MILL PROCESS WATERS: cresylic acid, and pine oils). Remove animats 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 Setengent and ninse with water. Saturate surfaces with a 0.08% (0.5 ft. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. immense all haltes, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a KENNELS, HUTCHES, ETC.) Do not use in milking stalls, milking parlors, or milk houses (for phenolics, 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 with potable water before reuse.

NOTE: This product at its use dilution is compatible with stainless steel and aluminum surfaces. If product is intended to be used on any other surface, it is recommended that you apply product to a smaller test area to determine PERACLEAN® 15 with 5 gallons of water. As eggs are gathered or prior to FOR SANITIZING OF HATCHING EGGS Prepare a solution of PERACLEAN® 15 by diluting 0.33 fluid ounce setting, apply solution as a coarse spray so as to lightly wet all shell surfaces. compatibility before proceeding with its use.

roller spreader, washer manifold, dip tank, on the brushes or elsewhere in product can be applied during physical cleaning processes, including at the 1. Prepare treating solution by diluting 1 fluid ounces per 16 gallons of potable water. This will provide 85 ppm peroxyacetic acid and 125 ppm hydrogen FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VEGETABLE SURFACES PERACLEAN® 15 can be applied as a dip or spray to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the washing process. This the washing process prior to, simultaneously with or after detergent wash.

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

The treated produce can be drain dried without a potable water rinse. 4.Do not reuse solution after treatment.

FOR THE TREATMENT OF PROCESSED FRUITS AND VEGETABLES AND

PROCESS WATERS TO CONTROL GROWTH OF NON-PUBLIC HEALTH MICRORGANISMS THAT CAN CAUSE SPOUAGE

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

2.Apply the diluted santizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No trinse following application is required. This use complies with the requirements of 21 GFR173.315 (a) 5 3. The treated produce can be drain dried without a potable water rinse.

. Do not reuse solution after treatment.

BIFOULING CONTROL IN PULP AND PAPERAILL SYSTEMS For use in the manufacture of paper and paperboard intended for food-

organisms in paper, paperboard, or nonwoven process water and influent water systems. Suitable dosing points include but are not limited to: stock chests, pulpers, the white water loop and white water storage systems and PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water

solution as a continuous or intermittent slug treatment. This will provide 1.8 to 9 ppm peroxyacetic acid (12 to 60 ppm PERACLEAN® 15). Repeat treatment Add PERACLEAN® 15 at a point in the system where uniform mixing and Use 0.1 to 0.5 lb. (1.4 to 6.85 ft. oz.) of PERACLEAN® 15 per 1000 gallons of (Contamination with other chemicals could result in product decomposition. even distribution will occur.

as required to maintain control.

INFLUENT WATER SYSTEMS:

PERACLEAN® 15 should be fed continuously to innoming fresh water streams (nonpotable use only) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15).

dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEANØ 15). This range is equivalent to 0.13 to 13 bs. PERACLEANØ Continuous Feed - PERACLEAN® 15 should be fed continuously

times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEANO 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced. Shock Dose – PERACLEAN® 15 should be shock dosed at dosages ranging 15 per ton (dry basis) of pulp or paper produced.

Intermittant Feed - PERACLEAN® 15 should be fed intermittantly (6 to 8

from 98 to 2048 ppm peroxyacetic acid (648 to 13,638 ppm PERACLEAN® 15). This range is equivalent to 1.3 to 27.3 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.

CONTROL OF BACTERIA AND FUNGI IN NON-FOOD

PERACLEAN® 15 can be used in the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin ciay, titanium CONTACT DISPERSED PIGMENTS

Add 0.1 to 0.5 lbs. (1.4 to 6.85 ft. oz.) of PERACLEAN® 15 to each 1000 lbs. of pigment slury. This will provide 15 to 75 ppm peroxyacetic acid (100 to dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and diatomaceous earth used in paint and paper production. 500 ppm PERACLEAN® 15).

CONTROL OF SLIME FORMING BACTERIA IN COOLING WATER SYSTEMS (COOLING TOWERS, EVAPORATIVE

-Severely fouried systems should be cleaned before adding the PERACLEAN® 15 solution. PERACLEAN® 15 should be added in the system directly and not mixed with any other chemicals or additives.

CONTROL OF BACTERIA AND FUNGI IN COATING

PERACLEAN® 15 can be used as an in-container preservative for the control PRESERVATION Not for material intended for food contact

of preservative. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 of bacteria and fungi in water-based coatings such as paper coatings. Add 0.1 to 0.5 lbs. {1.4 to 6.85 ft. oz.} of PERACLEANØ 15 to each 1000 lbs. ppm PERACLEAN® 15).

ANTIMICROBIAL RINSE OF PRE-CLEANED OR NEW RETURNABLE OR

To reduce the number of non-pathogenic beverage spoilage organisms. Effective against Aspergillus versicolor (ATCC 9577), Byssochlamys fulve Pediococcus damnosus(ATCC 29358), Lactobacillus buchneri (ATCC 4005), and Saccharomyces cerevisiae. NON-RETURNABLE CONTAINERS: (ATCC 10099),

3.Allow containers to drain thoroughly, and then rinse with sterile or potable 1. Prepare PERACLEAN® 15 solution by adding 9.85 fl. oz. to 5 gallons 2.Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) potable water. This provides 2,632 ppm peroxyacetic acid.

Bactericidal, VirucidalA, Fungicidal, Tuberculocidal

For use on hard, non-porous surfaces

PERACLEAN® 15 disinfects as it cleans in one operation. PERACLEAN® 15 chrome, laminated or painted surfaces or sealed stone. PERACLEAN® 15 porous glazed porcelain, glazed ceramic, plastic (such as polypropylene and can be used to disinfect floors, walls and other hard nonporous surfaces such as tables, chairs, countertops, bathroom fixtures, sinks, bed frames, doors, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, nonoolyethylene), stainless steel, glass, aluminum, non-porous baked enamel should not be used on marble or brass surfaces.

For health care, institutional, and industrial use.

Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary obstetrical suites; housekeeping surfaces; physical therapy departments; clinics, animal life science laboratories, industrial facilities, office buildings, nursing services; dental facilities; autopsy facilities; intensive care units recreational facilities, industrial facilities; hotels, retail facilities; buildings; retail and wholesale establishments. pharmacies; and clinical faboratories.

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

wet for 1 minute to kill bacteria, viruses, and fungi as cited on the label. Use Resistant Enterococcus faecalis. Use a 10 minute contact time for Poliovirus Dilute PERACLEAN® 15 with the appropriate amount of water to an effective Type 1 and Tuberculocidal activity. PERACLEAN® 15 is effective agalnst concentration of 1135ppm Peracetic acid and 1665ppm hydrogen peroxide (0.85 fl. oz per 1gallon of water). Apply solution with a cloth, mop, sponge, auto-scrubber, or hand pumped trigger sprayer such that all surfaces remain 3 minute contact time for Streptococcus pneumoniae, and Vancomycin-Aycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow Prepare a fresh solution daily or more often if the use solution becomes visibly surface to air dry. For heavily soiled areas, a preliminary cleaning is required soiled clouded or difuted

This product is not for use on medical device surfaces.

41 (AiDS Virus), HBV, and HCV.

mmunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatifis B cleaned environmental surfaces/objects previously soiled with luids, and in which the surfaces / objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human blood/body fluids in health care settings or other settings in which there is an expected likelihood of soiling of surfaces/ objects with blood or body firus, or Hepatitis C Virus. Special Instructions for cleaning and decontamination against HIV-1 (AIDS gowns, face masks, eye coverings as appropriate must be worn during all cleaning of body and other body fluids must be thoroughly cleaned from surfaces and objects Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. luids, blood and decontamination procedures. Cleaning Procedure: Blood before application. Contact Time: HIV-1, HBV, and HCV are inactivated after Personal Protection: Disposable protective gloves, minute of contact.

nfectious material. Blood and other bodily fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious raste disposal,

Yersinia enterocolitica ATCC 35669

PERACLEAN® 15 is effective against the following organisms in 1 minute with 5% organic soil load and 400ppm hard water: For use on hard, non-porous surfaces. * Contact time is increased to 10 minutes to be effective against Poliovirus Type 1 and Mycobacterium bovis (TB Surrogate)

Contact time is increased to 3 minutes to be effective against Streptococcus pneumoniae and Vancomycin resistant Enterococcus faecalis (VRE)

Bacteria	Human viruses∆
Acinetobacter baumanii ATCC 19606	Herpes simplex virus Type 1 ATCC VR-260
Clostridium perfringens ATCC 13124	Herpes simplex virus Type 2 ATCC VR-734
Community-associated MRSA, USA300 strain (CA-MRSA) CI 08001	Human immunodeficiency virus type 1
(HIV-1) (Zeptometrix Corporation)	
Escherichia coli O157:H7 ATCC 35150	Human Influenza A virus (A/Hong Kong/8/68- H3N2) SPAFAS
Klebsiella pneumoniae ATCC 4352	Human Rotavirus ATCC VR-2018
Listeria monocytogenes ATCC 19111	Poliovirus Type 1* ATCC 1562
Methicillin-resistant Staphylococcus aureus (MRSA) ATCC 33592	Respiratory Syncytial Virus ATCC VR-26
Methicillin-resistant Staphylococcus epidemidis (MRSE) ATCC 51625	Rhinovirus Type 37 ATCC 1147
Мусоbacterium bovis (ТВ surrogate)*	
(Organon Teknika Corp)	Vaccinia virus ATCC VR-156
Pseudomonas aeruginosa ATCC 15442	Human Coronavirus strain 229e
ATCC VR-740	
Salmonella enterica ATCC 10708	Bovine viral diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laborato- ries)
Salmonella enterica serovar Typhimurium ATCC 13311	Duck hepatitis B virus (Human Hepatitis B surrogate) (Hepanda Virus Testing)
Serratia marcescens ATCC 13880	Feline calicivirus (Norovirus surrogate) (University of Ottawa)
Shigella dysentariae serotype 1 ATCC 29026	
Staphylococcus aureus ATCC 6538	Animal virusesΔ
Streptococcus pneumoniae§ ATCC 6304	Avian influenza A (Turkey/Wis/66-H9N2) SPAFAS
Streptococcus pyogenes ATCC 19615	
Vancomycin-intermediate Staphylococcus aureus (VISA) ATCC 700787	Fungi
Vancomycin-resistant Enterococcus faecalis (VRE) § ATCC 51575	Candida albicans ATCC 10231
Vibrio cholerae ATCC 14035	Trichophyton mentagrophytes ATCC 9533
	o

FOR ANTIMICROBIAL USE WITH AQUEOUS TREATMENT FLUIDS.

FOR DISINFECTION OF SEWAGE AND WASTEWATE

REATMENT PLANTS

SUBTERRANEAN OILFIELD AND GAS-FIELD WELL OPERATIONS

anaerobic sulfate reducing bacteria, that lead to and spoilage bacteria, yeast and fungi and PERACLEAN® 15 can be for control of slime forming PRODUCTIVITY ENHANCEMENT AND SECONDARY RECOVERY. SUCH AS WELL DRILLING, FORMATION FRACTURING, eservoir souring and metal corrosion.

or may be used with an approprie such as hydrogen peroxide or other Peraclean 15 may be applied to et discharged from trickle bed or percola bed fifters. The application rate for facilities will depend on the degree of of the effluent stream to be dischan ocal microbial discharge limit. Adjus ate to meet the need of the individua 1.Add PERACLEAN® 15 to effluen: concentration of 0.5 ppm to 15 ppm. / time of approximately 15 to 60 minute

Peraclean 15 can be applied directly t

treatment plants

effluent related to public and private

wastewater

Use PERACLEAN® 15 to treat

equipped with a metering device that is appropriate This product must be introduced through a closed mixed/loading and delivery transfer system or its intended uses.

DRILLING MUDS, FRACTURING FLUIDS, WELL SQUEEZED

or the preservation of drilling muds, workover and completion fluids and other product susceptible to contamination, pre-mix with the fluid or add lirectly at the point of use at 3.75 fluid ounces per 1000 gallons of water (5 ppm) to 75 fluid ounces Depending on the severity of the contamination, nitial application may be added up to 749 fluid per 1000 gallons of water (100 ppm) as required. unces per 1000 gallons of water (1000 ppm).

be discharged from the treatment faci

The maximum amount of peracetic:

Use an appropriate peracetic acid tes to ensure that this level is not exceed

Evonik Corporation for assistance

reatment

FLOODING, INJECTION AND PRODUCED WATER

or Water Flooding operations, add initially at 3.75 luid ounces per 1000 gallons of water (5 ppm) to 75 luid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent reatment may be continued on a weekly basis or as required. njection wells associated with gas storage systems nay be treated up to 100 ppm when diluted in the ormation water. Any additional top-up water should be treated as required.

or hydrostatic systems, apply 3.75 fluid ounces per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) depending on he water quality and the duration of the shut-in.

PIPELINE AND TANK MAINTENANCE

efined hydrocarbon storage tanks, piping and ransportation systems. Apply 3.75 fluid ounces per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) in the aqueous shase, directly injected into the water-bottom, Treatment may be applied daily or monthly for both storage and For microbial control in water-bottoms in crude and sipeline or may be Added to the hydrocarbon phase.

transportation systems as needed.



Parsippany, New Jersey 07054-0677

Evonik Corporation • • 299 Jefferson Rd Manufactured bys

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FOR DISINFECTION OF SEWAGE AND WASTEWATER EFFLUENTS IN

FREATMENT PLANTS

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Jse PERACLEAN® 15 to treat sewage and

Peraclean 15 can be applied directly to the effluent or may be used with an appropriate activator such as hydrogen peroxide or other technology. Peraclean 15 may be applied to effluent water discharged from trickle bed or percolating fluidized bed filters. The application rate for individual acilities will depend on the degree of bioloading of the effluent stream to be discharged and the ocal microbial discharge limit. Adjust application

reatment plants

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ansportation systems as needed

orage and



STORAGE AND DISPOSAL

Storage and Disposal

Do not contaminate water, food, or feed by storage and

flood area with large quantities of water. Do not store in a PESTICIDE STORAGE: Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which manner where cross-contamination with other pesticides In case of spill will decrease product effectiveness. or fertilizers could occur. effluent related to public and private wastewater

PESTICIDE DISPOSAL: Wastes resulting from Representative at the nearest EPA Regional Office for the use of this product may be disposed of on site or at o label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste prohibited. If wastes cannot be disposed of according an approved waste disposal facility. Open dumping

CONTAINER DISPOSAL: Nonrefillable container. or use allow a different (concentrated) product to be Do not reuse or refill this container unless the directions diluted in the container.

.Add PERACLEAN® 15 to effluent water at a concentration of 0.5 ppm to 15 ppm. Allow contact

ate to meet the need of the individual facility.

Containers less than 5 gallons:

to ensure that this level is not exceeded. Contact Evonik Corporation for assistance establishing

reatment

2. The maximum amount of peracetic acid that can be discharged from the treatment facility is 1 ppm. Use an appropriate peracetic acid test kit analyzer

ime of approximately 15 to 60 minutes.

riple rinse as follows: Empty the remaining contents 4 full with water and recap. Shake for 10 seconds. Pour into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container insate into application equipment or a mix tank or store insate for later use or disposal. Drain for 10 seconds after he flow begins to drip. Repeat this procedure two more

Containers greater than 5 gallons:

riple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into Tip the container on its side and roll it back and forth, ensuring limes. Empty the rinsate into application equipment or a mix tank or store rinsate for later use of disposal. Repeat he procedure two more times. Then offer for recycling or application equipment or mix tank. Fill the container 1/4 at least one complete revolution, for 30 seconds. Stand container on its end and tip back and for the several dispose in a sanitary landfill, or by incineration, if allowed ull with water. Replace and tighten closures. y state and local authorities by burning.

Evonik Corporation Co. 299 Jeffer Parsippany, New Jersey 07054-0677

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