

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Tiana M. Rosamilia Evonik Corporation 299 Jefferson Rd. Parsippany, New Jersey 07054

NOV 27 2013

Subject:

Adding Use Directions for Oil Field and Gas Field Well Operations to Peraclean

15% (Peroxyacetic Acid Solution)

EPA Reg. No. 54289-4

Amendment Letter dated July 15, 2013

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable.

Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) and section 4(a) 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.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one (1) 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.

If you have any questions concerning this letter, please contact Elizabeth Watkins at (703) 346-0241.

Sincerely,

Marshall Swindell

Product Manager (33)

Regulatory Management Branch 1 Antimicrobials Division (7510P)

is a violation of Federal law to use this product in a manner inconsistent vith its labeling.

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

PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or solled.

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

Effective against Staphylococcus aureus and Escherichia coll. SANITIZING FOOD CONTACT SURFACES

Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% ration). This will provide 88 ppm of peroxyacetic acid. At this

and coli. Use immersion, coarse spray or circulation techniques as 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 ACLEAN® 15 is effective against Staphylococcus aureus and governing sanitary code. Drain thoroughly. Do not rinse.

SANITIZING, EATING, DRINKING, AND FOOD PREP UTENSILS

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

SANITIZING TABLEWARE

to insure that the PERACLEAN® 15 santitizer concentration does not fall below 48 ppm peroxyacetic acid, pertodically test the rinse solution with a For santitzing tableware in tow temperature warewashing machines, inject PERACLEANO 15 into the final rinse water at a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water. Do not exceed suitable test kit and adjust the dispensing rate accordingly. Consult your echnical service representative for assistance and further information on 0.053 % v/v. This will provide 88 ppm of peroxyacetic acid. Air dry. sanitizing tableware in warewashing machines.

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 ** · · · · ved in 5 gallons of water). This will provide 88 ppm of peroxyacetic

JANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA

FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

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

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

Flush the system again with the RC permeate or similar quality water. Prepare an appropriate volume of 1% solution of the product (0.33 gailon Remove biological or organic fouling from the membrane or other parts of the system with an appropriate cleaner. Fuysh the system with RO permeate or similar quality water. Remove minerial deposits with entable addic cleaner prior to sanitizing the me. whranes with PERACLEM. 16. of PERACLEAN® 15 to 100 gallons of water). This will provide 568 ppm peroxyacetic acid and 834 ppm hydrogen peroxide. Fill the entire water circuit to be sanitized with the dilute solution and e-low "he solution" to soak in the solution for a minimum of 20 minutes. Rins: the RO rysten reach a minimum of 20°C (68°F). Recirculate the Clute solution of PERACLEAN® 15 for a minimum of 10 minutes. Allow membi ane elements and test for residuals to ensure that there is less than 3 pp... per oxy_se...

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

Isolate incompatible equipment from piping system. This includes activated

for dilution. This will provide 554 to 840 ppm peraxyacetic acid and 813 to light units. Estimate total volume of water contained in the system (fanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 should be opened and closed to expose internals to the PERACLEAN® 15. Completely drain the system of dilute PERACLEAN® 15 solution. Thoroughly rinse the system by filling with RO permeate or similar quality water and recirculate before drainage. Repeat the process until test for residuals Turn off power to ultraviolet PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every solution through the system for a minimum of 4 hours. Process usage valves 100 gallons of solution prepared. Use RO permeate or similar quality water carbon filters and ion exchange equipment. indicates there is less then 3 ppm peroxygen.

CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF

BIOLOGICAL MATTER BETWEEN INTERMITTENT SANTIZING 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 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) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm peroxygen so that the desired effect is obtained. For continuous addition, peroxygen residual in the system which will be effective will vary with the design and usage characteristics of the system. Adjust the addition rate of PERACLEANO 15 or the solution and periodically monitor residual SURFACES) PERACLEANO 15, as received or diluted, may be added to aid in minimizing the regrowth/ accumulation of biological matter. give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide

HARD SURFACE DISINFECTION PERACLEAN® 15 disinfects as it cleans in one operation. PERACLEAN® such as tables, chairs, countertops, bathroom fixtures, sinks, bed frames, 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 stainless steel, or glass.

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

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

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella COMBINATION DISINFECTION AND CLEANING

choleraesuls, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichla coli O157: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 heavily solled areas a pre-cleaning step is required. Apply solution with mop, wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove 15 will deodorize those areas which are generally hard to keep smelling fresh solution and entrapped soil with a clean wet mop, cloth, or wet vacuum runs, cages, and feeding and watering equipment. In addition PERACLEAN® STOTED garbage storage areas, empty garbage bins and cans, and any other PERACLEAN® 15 is resigned for use in animal hospitals, animal laboratories. kennels, pet sl. 3ps, zoc., pet animal quarters, poultry premises, poultry hatchcries, and lives ock uparters. When used as directed, PERACLEAN® to is specifically designed to disinfect, deodorize and clean inanimate, hard surfaces such as walls, floors, sink tops, furniture, operating tables, kenne Prepare a fresh solution daily or when it becomes soiled or diluted. areas which are prone to odors caused by microorganisms pickup.

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

Diverting product water to drain can reduce residuals.

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

PERACLEAN ® 15

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

				I
Institutional/Industrial	Hard Surface Disinfection	Bacteria, Fungi,	Active ingredients:	
Sanitizing of Prevlously	ij	and Slime	ı	
Cleaned Non-Porous	•Hospitals	Control in:	Hydrogen Peroxide 22.09	8
Food Contact Surfaces in:	 Health Care Facilities 	◆Pulp and Paper		15.09
•Dairies	•Schools	Mill Systems		63.0%
•Wineries	-Colleges	 Dispersed Pigments 	١	ı
•Breweries	 Veterinary Clinics 	Cooling Water Systems	Total: 100%	8
 Food and Beverage Plants 	 Animal Life Science Laboratories 	Coatings Preservation	Net contents as stated	
 Disinfecting Poultry Premises 	Industrial Facilities	•	on container	
Poutty Hatcheries	Office Buildings			
 Animal Housing Facilities 	*Recreational Facilities		EPA Reg No: 54289-4	7
Reverse Osmosis Membranes	Retail and Wholesale		EPA ESTAB. N	2
and Ultra Fitration	Establishments		70253-CA-002,	
			70547-IL-001	

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

DANGER

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 rinsing eye. Call polson 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 swallowed: Have person sip a glass of water if able to swallow. Do not induce vornating 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 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

gloves when hariding. 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 tollet. Remove contaminated clothing and wash before DANGER. CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through the skin. Harnful 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 hubber

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXDIZING 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

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



NOV 27 2013

Under the Federal Insecticids, Fungicide, and Fodenticide Act as amended, for the

Sections, registered under EPA Reg. No. 54281-4

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



TRUC DISINFECTION OF POULTRY PREMISES,

Poultry Hatchery Disinfection Remove all poulty and feeds from premises, trucks, occupied or traversed by poultry. Empty all troughs, rac of PERACLEAN® 15 for a period of 10 minutes. Ventil and other closed spaces. Do not house poultry or em and rinse with potable water before reuse. See your tech for specific recommendations for all cleaning and rinsing and watering appliances. Thoroughly clean all surfaces rinse with water. Saturate surfaces with a 0.08% (0.5 f reatment has been absorbed, set or dried. Thorough! racks, troughs, automatic feeders, fountains and water Remove all litter and droppings from floors, walls and DISINFECTION AND DEODORIZING OF ANIMAL HOUSING

Do not use in milking stalls, milking partors, or milk ho other feeding and watering equipment. Thoroughly clea manure. Ventilate buildings, cars, boats, and other clo set, or dried. Thoroughly scrub all treated feed racks loors, walls and surfaces of barns, pens, stalls, chute nal.) solution of PERACLEAN® 15 for a period of 10 n natters, ropes, and other types of equipment used in har animals, as well as forks, shovels, and scrapers used for automatic feeders, fountains, and waterers with soap or and fixtures occupied or traversed by animals. Empty a Remove animals and vehicles, and enclosures. Remove litter, waste matter detergent and rinse with water. Saturate surfaces with house livestock or employ equipment until treatment with potable water before reuse. cresylic acid, and pine oils). KENNELS, HUTCHES, ETC.)

FOR SANITIZING OF HATCHING EGGS

Prepare a solution of PERACLEAN® 15 by dilutin PERACLEAN® 15 with 5 gallons of water. As eggs are setting, apply solution as a coarse spray so as to lightly NOTE: This product at its use dilution is compatible wi atuminum surfaces. If product is intended to be used t is recommended that you apply product to a smaller compatibility before proceeding with its use.

1. Prepare treating solution by diluting 1 fluid ounces per water. This will provide 85 ppm peroxyacetic acid and FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VI of non-public health microorganisms that may cause di on raw, post-harvest fruits and vegetables during the wi he washing process prior to, simultaneously with or after product can be applied during physical cleaning proces roller spreader, washer manifold, dip tank, on the brus PERACLEAN® 15 can be applied as a dip or spray

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

The treated produce can be drain dried without a pota 1.Do not reuse solution after treatment.

FOR THE TREATMENT OF PROCESSED FRUITS AND VEG

PROCESS WATERS TO CONTROL GROWTH OF NON-PUB Prepare treating solution by diluting 1.5 fluid ounce potable water. This will provide 80 ppm peroxyacet

of at least 45 seconds. No rinse following application complies with the requirements of 21 CFR173.315 (a) 1: 3. The treated produce can be drain dried without a pota 2. Apply the diluted sanitizer solution as a spray or dip. 4.Do not reuse solution after treatment.

IN-FOOD CONTACT SURFACES) OF PIPING

vide 554 to 840 ppm peroxyacetic acid and 813 to roxide. Recirculate the dilute PERACLEAN® 15 am for a minimum of 4 hours. Process usage valves osed to expose internals to the PERACLEAN® 15. em of dilute PERACLEAN® 15 solution. Thoroughly Prepare an appropriate volume of 0.33 to 0.5% Iding 0.33 to 0.5 gallons of the product for every epared. Use RO permeate or simitar quality water change equipment. Turn off power to ultraviolet volume of water contained in the system (tanks,

NT ADDITION TO MINIMIZE THE ACCUMULATION OF

WEEN INTERMITTENT SANJITANG EPISODES IN

water system, between system sanitizing episodes 33 fluid ounce of product per 440 gallons of water sired effect is obtained. For continuous addition, egrowth/ accumulation of blological matter. The system which will be effective will vary with the teristics of the system. Adjust the addition rate he solution and periodically monitor residual 30 15, as received or diluted, may be added

intermittent feed, do not exceed 750 ppm (8.5 fluid 10 gallons of water) PERACLEANO 15. This will will give 1 ppm peroxyacetic acid and 1.4 ppm tic acid and 160 ppm hydrogen peroxide. ects as it cleans in one operation. PERACLEANO ect floors, walls and other hard nonporous surfaces countertops, bathroom fixtures, sinks, bed frames, frigerators, coolers, glazed tile, linoleum, vinyl, nonplastic (such as polypropylene and polyethylene),

loodstream or normally sterile areas of ontacts intact mucous membranes but rdinarity penetrate the blood barrier or ormally sterile areas of the body. This ned to preclean or decontaminate critical edical devices prior to sterilization or any surface or instrument that (1) is into the human body, either into or in facilities, schools, colleges, veterinary clinics,

TON AND CLEANING

hat will contact food, feed, or drinking water must be le areas, empty garbage bins and cans, and any othe to odors caused by microorganisms.

is, a pre-cleaning step is required. Prepare a fresh

ng with RO permeate or similar quality water and Repeat the process until test for residuals я 3 ррт регохудел

Wineries

ATED WITH RO MEMBRANES (NON-FOOD CONTACT

PERACLEAN® 15 may be used for surgical and ekeeping services; physical therapy departments; y facilities. Also, use PERACLEAN® 15 in nursing oratories, industrial facilities, dietary areas, office t to be used as a terminal sterilant/high icilities, retail and wholesale establishments.

fective against Staphylococcus aureus, Salmonella onas aeruginosa, Trichophyton mentagrophytes, and 17 at 0.08% (0.5 fl. oz./5 gal.) in hard water (400 ppm bovine serum on hard nonporous surfaces. For re-cleaning step is required. Apply solution with mop, rubber, or coarse spray device, or by soaking so as to soil with a clean wet mop, cloth, or wet vacuum hly. Allow to remain wet for 10 minutes, then remove signed for use in animal hospitals, animal laboratories, xo., pet animal quarters, poultry premises, poultry unarters. When used as directed, PERACLEANG solution daily or when it becomes soiled or diluted.

and watering equipment. In addition PERACLEAN®

ed to disinfect, deodonize and clean inanimate, hard, floors, sink tops, fumiture, operating tables, kennel areas which are generally hard to keep smelling fresh

(PEROXYACETIC ACID SOLUTION) PERACLEAN ® 15

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

63.0% ö EPA Reg No: 54289-4 8 Net contents as stated EPA ESTAB. 70253-CA-002, 70547-IL-001 Hydrogen Peroxide Active Ingredients: Peroxyacetic Acid on container . inert Ingredients: Total: Cooling Water Systems Coatings Preservation Dispersed Pigments Bacteria, Fungi, Control in:
•Pulp and Paper
Mill Systems and Slime Hard Surface Disinfection Animal Life Science Laboratories
 Industrial Facilities Recreational Facilities Health Care Facilities Retail and Wholesale Veterinary Clinics Office Buildings Hospitals Colleges •Schools Cleaned Non-Porous Food Contact Surfaces in: Reverse Osmosis Membranes Sanitizing of Previously Disinfecting Poultry Premises Institutional/Industrial Food and Beverage Plants Animal Housing Facilities Pouttry Hatcheries and Ultra Filtration

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

DANGER

Label not for use in California

FIRST AID

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 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.

swallowed: Have person sip a glass of water if able to swallow. Do not induce vorniting unless told to do so by a polson 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 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

DANGER. CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through the skin. Harmful if swallowed. Do not breathe vapors or spray mist. Do not get in eyes on skin or on clothing. Wear goggles and/or face shield and rubber gloves when handling. Do not enter an enclosed area without proper respiratory protection. Wash thoroughly with soap and water after handling and before eating, drinkling, chewing gurn, using tobacco or using the tollet. Remove contaminated clothing 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. PERACLEANØ 15 is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate combustion.

ENVIRONMENTAL HAZARDS

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 This pesticide is toxic to birds, fish, and aquatic invertebrates. Caution should be used when applying indoors because pets may be at risk. treatment plant authority. For guidance contact your State Water Board or Regional Office of the US Environmental Protection Agency.

NOV 27.2013

Under the Federal Insecticids, Fungicide, and Radentioide Act as amended, for the 234 Teg. No. 54281-4 necticida, registered



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

62211 PREMISES, TRUCKS, COOPS AND **POULTRY** ö DISINFECTION

inse with water. Saturate surfaces with a 0.00% (0.5 f. o.2.5 gat) sourcen Contamination with other chemicals could result in product decomposition.

of PERACLEANO 15 for a period of 10 minutes. Ventitate buildings, coops. "Add PERACLEANO 15 at a point in the system where uniform mixing and treatment has been absorbed, set or dried. Throughly sorub treated feed. "Use 0.1 to 0.5 lb. (1.4 to 6.86 ft. oz.) of PERACLEANØ 15 per 1000 gallons of occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and and other closed spaces. Do not house poultry or employ equipment until for specific recommendations for all cleaning and rinsing requirements.

DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS.

KENNELS, HUTCHES, ETC.)

and fixtures occupied or traversed by animals. Empty all troughs, racks and dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm other feeding and watering equipment. Thisroughly clean all surfaces with a PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz/5 15 per ton (dry basis) of pulp or paper produced.
gal) solution of PERACLEAN® 15 should be fed intermittently (6 to 8 vehicles, and enclosures. Remove littler, waste matter, and gross soils from Mill_PROCESS WAIERS. floors, walls and surfaces of barns, pens, stalls, chutes and other facilities •Continuous Feed – PERACLEAN® 15 should be fed continuously at animals, se well as lows, shoves, and scrapers used for removing litter and to 65:00 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 ibs. manure. Ventilate buildings, cars, boats, and other closed spaces. Do not PERACLEAN® 15 per fon (dry basis) of pulp or paper produced. house livestock or employ equipment until treatment has been absorbed. Shock Dose – PERACLEAN® 15 should be shock dosed at dosages ranging set, or died. Thoroughly scrub all treated feed racks, mangers, troughs, from 98 to 2048 ppm peroxyacetic acid (648 to 13.538 ppm PERACLEAN® Do not use in milking stalls, milking partors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross solis from I automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

FOR SANITIZING OF HATCHING EGGS

PERACLEAN® 15 with 5 gallons of water. As eggs are gathered or prior to PERACLEAN® 15 can be used in the control of bacteria and fung in the setting, apply solution as a coarse spray so as to lightly wet all shell surfaces. Manufacture and storage of dispersed pignents such as kackin day, transmit all minimum surfaces. If nonline is known to k 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 compatibility before proceeding with its use.

roller spreader, washer manifold, dip tank, on the brushes or elsewhere in Severely fouled systems should be cleaned before adding the PERACLEAN® the washing process prior to, simultaneously with or after detergent wash. 15 solution. PERACLEAN® 15 should be added in the system directly and on raw, post-harvest fruits and vegetables during the washing process. This WATER SYSTEMS (COOLING TOWERS, EVAPORATIVE Prepare treating solution by diluting 1 fluid ounces per 16 gallons of potable not mixed with any other chemicals or additives. product can be applied during physical cleaning processes, including at the CONDENSERS) PERACLEANO 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 water. This will provide 85 ppm peroxyacetic acid and 125 ppm hydrogen

2.Apply the diluted sanifizer solution using a coarse spray directed at the fruits PRESERVATION or vecetables, or by so aking the fruits and vegetables in the solution. Allow a Not for use in manufacture of material intended for food contact or vecetables, or by so aking the fruits and vegetables in the solution. Allow a Not for use in manufacture of material intended for food contact. contact time of at least 45 seconds.

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

4.Do not reuse solution after treatment.

FOR THE TREATMENT OF PROCESSED FRUITS AND VEGETABLES AND

PROCESS WATERS TO CONTROL GROWTH OF NON-PUBLIC HEALTH

MICRORGANISMS THAT CAN CAUSE SPOILAGE
1. Prepare treating solution by dilluting 1.5 fluid ounces per 25 gailons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm foliable water.

2. Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use . The treated produce can be drain dried without a potable water rinse. complies with the requirements of 21 CFR173.315 (a) 5

4.Do not reuse solution after treatment

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

Remove all poultry and feeds from premises, trucks, coops and crates, organisms in paper, paperboard, or norwoven process water and influent Remove all litter and droppings from floors, walls and surfaces of facilities water systems. Suitable dosing points include but are not limited to: stock PERACLEAND 15 can be used to control bacteria, fungi, and fresh water chests, pulpers, the white water loop and white water storage systems and influent water streams.

even distribution will occur.

racks, troughs, automatic feeders, fountains and waterers with a detergent solution as a confinuous or intermittent stug treatment. This will provide 1.8 to and fines with potable water before reuse. See your technical representative 9 ppm peroxyacetic acid (12 to 60 ppm PERACLEAN® 15). Repeat treatment

as required to maintain control.

<u>INFLUENT WATER SYSTEMS</u>: PERACLEANØ 15 should be fed continuously to Incoming fresh water streams (nonpotable use only) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEANØ 15).

halters, ropes, and other types of equipment used in handling and restraining times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65

This range is equivalent to 1.3 to 27.3 lbs. PERACLEAN® 15 per ton This range is equivalent to 1.3 t
 (dry basis) of pulp or paper produced.

CONTROL OF BACTERIA AND FUNGI IN NON-FOOD

of pigment surny. This will provide 15 to 75 ppm peroxyacetic acid (100 to negative RAVA) acid (100 to negative surply supply to the surply supply of the supply supply of the supply supply of the supply su Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. silicate and diatomaceous earth used in paint and paper production.

CONTROL OF SLIME FORMING BACTERIA IN COOLING

CONTROL OF BACTERIA AND FUNGLIN COATING

PERACLEAN® 15 can be used as an in-container preservative for the control of preservative. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of bacteria and fungi in water-based coatings such as paper coatings. ppm PERACLEAN® 151.

ANTIMICROBIAL RINSE OF PRE-CLEANED OR NEW RETURNABLE OR

NON-RETURNABLE CONTAINERS:

To reduce the number of non-pathogenic beverage spoilage organisms. Effective against Aspergillus versicolor (ATCC 9577), Byssochlarnys fuha (ATCC 10099), Pediococcus damnosus(ATCC 29388), Lactobacillus Pediococcus damnosus(ATCC 29358), Lactobacillus buchneri (ATCC 4005), and Saccharomyces cerevisiae.

1. Prepare PERACLEAN® 15 solution by adding 9.85 fl. oz. to 5 gallons Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) 3. Allow containers to drain thoroughly, and then rinse with sterile or potable and allow a minimum seven-second contact period. (ATCC 47058) potable water. This provides 2,632 ppm peroxyacetic acid.

Bactericidal, VirucidalA, Fungicidal, Tuberculocidal

For use on hard, non-porous surfaces.

Application:

PERACLEAN® 15 disinfects as it cleans in one operation. PERACLEAN® 15 can be used to disinfect floors, walls and other hard nonporous surfaces such as tables, chairs, countertops, bathroom fixtures, sinks, bed frames, doors, stelves, racks, carts, retrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, glazed ceramic, plastic (such as polypropylene and polyethylene), stainless steel, glass, aluminum, non-porous baked enamel, porous laminated or painted surfaces or sealed stone. PERACLEAN® 15 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 obstetrical suites; housekeeping surfaces; physical therapy departments; nursing services; dental facilities; autopsy facilities; intensive care units; pharmacles; and clinical aboratories. Also, use PERACLEAN® 15 in pharmacles; and clinical aboratories. Also, use PERACLEAN® 15 in the pharmacles and clinical pharmacles; achous collected to the pharmacles.

". 'I homes, other health-care facilities, schools, colleges, veterinary animal life science laboratories, industrial facilities, office buildings, reuestional facilities, industrial facilities; hotels; retail facilities; office buildings; retail and wholesale establishments.

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 contact with the bloodstream or normally sterile areas of the body, or (2) contacts infact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the benetrate the blood barrier or otherwise enter normally sterile areas of the obentrate the blood barrier or otherwise but and of contaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

Dilute PERACLEAN® 15 with the appropriate amount of water to an effective concentration of 1135ppm Peracetic acid and 1655ppm hydrogen peroxide (0.85 ft. oz per 1gallon of water). Apply solution with a cloth, mop, sponge, auto-scrubber, or hand pumped trigger sprayer such that all surfaces remain water for 1 minute to kill bacteria, viruses, and fungl as cited on the label. Use a 3 minute contact time for Streptococcus pneumoniae, and Vancomycin-Resistant Enterococcus faecalis. Use a 10 minute contact time for Poliovirus Type 1 and 1uberculocidal activity, PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow Wincabe to air dry. For heavily solied areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly.

This product is not for use on medical device surfaces.

clouded or diluted

(S)

Kills HIV-1 (AIDS Virus), HBV, and HCV:

On pre-cleaned environmental surfaces/objects previously soiled with 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 fluids, 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 Inmunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.

Special Instructions for cleaning and decontamination against rif V-1 (AIDS Vinus), HBV, and HCV of surfnoss) objects soiled with blood body fluids. Personal Protection: Disposable protective gloves, gowns, vare masks, or eye coverings as appropriatr mist be worn during all clearing of body fluids, blood and decontamination procedures. Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application. Contact Time: HIV-1, HBV, and HCV are inractively-affer affect.

Infectious material: Blood and other bodily fluids snevild be autoclared and disposed of according to federal, state and local regulations for infectious waste disposal.

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-26
Clostridium perfringens ATCC 13124	Herpes simplex virus Type 2. ATCC VR-73
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, 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
Methicilin-resistant Staphylococcus epidermidis (MRSE) ATCC 51625	Rhinovirus Type 37 ATCC 1147
Mycobacterium bovis (TB 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 diambea virus (Human Hepati surrogate) (American Bioresearch Labora ries)
Salmonella enterica serovar Typhimurium ATCC 13311	Duck hepatitis B virus (Human Hepatitis B rogate) (Hepanda Virus Testing)
Serratia marcescens ATCC 13880	Feline calicivirus (Norovirus surrogate) (U sity 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



Yersinia enterocolitica ATCC 35669

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



FOR ANTIMICROBIAL USE WITH AQUEOUS TREATMENT & SUBTERRANEAN OILFIELD AND GAS-FIELD WELL OPERA DRILLING. FORMATION FRACTURING, PRODUCTIVITY EN SECONDARY RECOVERY.

Peraclean 15 can be for control of slime form and spoilage bacteria, yeast and fungi and reducing bacteria, that lead to reservoir st corrosion.

This product must be introduced through loading and delivery transfer system equippe device that is appropriate for its intended use

DRILLING MUDS, FRACTURING FLUIDS, WELL SQUEE

For the preservation of drilling muds, workow fluids and other product susceptible to conte with the fluid or add directly at the point of ounces per 1000 gallons of water (5 ppm) to 7 1000 gallons of water (100 ppm) as required. severity of the contamination, initial applicating to 749 fluid ounces per 1000 gallons of wi

FLOODING, INJECTION AND PRODUCED WATER

For Water Flooding operations, add initially a per 1000 gallons of water (5 ppm) to 75 fluic gallons of water (100 ppm) and repeat unit o Subsequent treatment may be continued on as required.

Injection wells associated with gas storage treated up to 100 ppm when diluted in the for additional top-up water should be treated as For hydrostatic systems, apply 3.75 fluid gallons of water (5 ppm) to 75 fluid ounces of water (100 ppm) depending on the watt duration of the shut-in.

PIPELINE AND TANK MAINTENANCE

Iniver

Sur-

For microbial control in water-bottoms in chydrocarbon storage tanks, piping and trans Apply 3.75 fluid ounces per 1000 gallons of 75 fluid ounces per 1000 gallons of water aqueous phase, directly injected into the water or may be added to the hydrocarbon phase. Treatment may be applied daily or monthly fo transportation systems as needed.

Contact time is increased to 10 minutes to be effective against Poliovirus Type 1 and Mycobacterium bovis (TB

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

itelecococa sacogno (vi a-).	
Bacteria	Human viruses∆ ∵
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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)	
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Yersinia enterocolitica ATCC 35669	





FOR ANTIMICROBIAL USE WITH AQUEOUS TREATMENT FLUIDS IN

SUBTERRANEAN OILFIELD AND GAS-FIELD WELL OPERATIONS SUCH AS WELL DRILLING, FORMATION FRACTURING, PRODUCTIVITY ENHANCEMENT AND

SECONDARY RECOVERY.
Peraclean 15 can be for control of slime forming

and spoilage bacteria, yeast and fungi and anaerobic sulfate educing bacteria, that lead to reservoir souring and metal corrosion. This product must be introduced through a closed mixed/ oading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

or fertilizers could occur.

DRILLING MUDS, FRACTURING FLUIDS, WELL SQUEEZED FLUIDS

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

FLOODING, INJECTION AND PRODUCED WATER

For Water Flooding operations, add initially at 3.75 fluid ounces Subsequent treatment may be continued on a weekly basis or per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved.

injection wells associated with gas storage systems may be treated up to 100 ppm when diluted in the formation water. Any additional top-up water should be treated as required. as required

For 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 the water quality and the duration of the shut-in.

PIPELINE AND TANK MAINTENANCE

For microbial control in water-bottoms in crude and refined 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 phase, directly injected into the water-bottom, pipeline hydrocarbon storage tanks, piping and transportation systems. or may be added to the hydrocarbon phase.

freatment may be applied daily or monthly for both storage and Iransportation systems as needed

SIUKAGE AND DISPUSAL Storage and Disposal

Do not contaminate water, food, or feed by storage and PESTICIDE STORAGE: Store in original containers

may cause increased degradation of the product, which flood area with large quantities of water. Do not store in a in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This manner where cross-contamination with other pesticides in case of spill, will decrease product effectiveness.

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

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

Containers less than 5 gallons:

riple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more

Containers greater than 5 gallons:

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