# EPA Registration No. 54289-4 Vol. 4

# PROCESSING REQUEST

**Reg #** 542894 **Decision #** 502756

**Description:** Revised w/correct label

**Electronic Label & Letter** (see PPLS): **OR** **Non Electronic Label & Letter** (Scanning required):

☑ Dated: 7/20/15 ☐ Dated:

***Only one label type should be selected***

## Other Materials Sent (see jacket):

☐ New CSF(s) Dated:

☐ Other:

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

**Reviewer:** TN

**Division:** AD

**Phone:** 347-0265 **Date:** 7/20/15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

July 20, 2015

Tiana Rosamilla
Evonik Corporation
299 Jefferson Road
Parsippany, NJ 07054

Subject: Label Amendment – Revised To Reflect Correct Label
Product Name: PERACLEAN™ 15
EPA Registration Number: 54289-4
Application Date: March 13, 2015
Decision Number: 502756

Dear Ms. Rosamilla:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

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 it's implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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. If you have any questions, please contact Terria Northern by phone at 703-347-0265, or via email at northern.terria@epa.gov.

Sincerely,

for

John Hebert, Chief
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure: Accepted Label

# PERACLEAN ® 15 ©

## (PEROXYACETIC ACID SOLUTION)

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

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

## FIRST AID

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

If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.

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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. 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 invertebrates. 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.

**ACCEPTED**

07/20/2015

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 54289-4

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

### DIRECTIONS FOR USE

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

#### SANITIZING

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

FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.

PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as $CaCO_3$. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

#### SANITIZING FOOD CONTACT SURFACES

Effective against Staphylococcus aureus and Escherichia coli.

Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% 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 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 governing sanitary code. Drain thoroughly. Do not rinse.

#### SANITIZING EATING, DRINKING AND FOOD PREP UTENSILS

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

#### SANITIZING TABLEWARE

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

To insure that the PERACLEAN® 15 sanitizer concentration does not fall below 48 ppm peroxyacetic acid, periodically test the rinse solution with a suitable test kit and adjust the dispensing rate accordingly. Consult your technical service representative for assistance and further information on 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 acid.

#### BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

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

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

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 prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate 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 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 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 reduce residuals.

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

Isolate incompatible equipment from piping system. This includes activated carbon filters and ion exchange equipment. Turn off power to ultraviolet light units. Estimate total volume of water contained in the system (tanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves 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 indicates there is less than 3 ppm peroxygen.

#### CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT SURFACES)

PERACLEAN® 15, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the regrowth/ accumulation of biological matter. The 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 PERACLEAN® 15 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

#### HARD SURFACE DISINFECTION

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, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites, housekeeping services, physical therapy departments, 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 buildings, recreational facilities, 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 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 or semi-critical medical devices prior to sterilization or high level disinfection.**

#### COMBINATION DISINFECTION AND CLEANING

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia coli O157 H7 at 0.08% (0.5 fl. oz./5 gal.) in hard water (400 ppm as $CaCO_3$) and 5% fetal bovine serum on hard nonporous surfaces. For heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.

PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, PERACLEAN® 15 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 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 areas which are prone to odors caused by microorganisms.

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

For heavily soiled areas a pre-cleaning step is required. Prepare a fresh solution for each use.

#### DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

#### POULTRY HATCHERY DISINFECTION

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. Seek your technical representative for specific recommendations for all cleaning and rinsing requirements.

#### DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HATCHERIES, ETC.)

Do not use in milking stalls, milking parlors 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 soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent and rinse with potable water before reuse.

#### BIOFILM CONTROL IN PULP AND PAPER MILL SYSTEMS

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact.

PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water 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 influent water streams.

(Contamination with other chemicals could result in product decomposition.)

•Add PERACLEAN® 15 at a point in the system where uniform mixing and even distribution will occur.

•Use 0.1 to 0.5 lb. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 per 1000 gallons of 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 as required to maintain control.

#### 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); Byssochlamys fulva (ATCC 10099), 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 potable water. This provides 2,632 ppm peroxyacetic acid.

2.Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period.(ATCC 47056)

3.Allow containers to drain thoroughly, and then rinse with sterile or potable water.

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

•Severely fouled 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.

#### TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS

PERACLEAN 15 can be used in water or ice that contacts raw or fresh post-harvest or further processed fruits and vegetables for the control of bacteria and fungi in commercial operations and packinghouses.

Batch, Continuous or Spray System Processes: Fill vessel containing fruits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the submersion method. Add the product at a rate no more than 60 ppm peroxyacetic acid to the use solution. This can be accomplished by initially adding 1.0 fl. oz. per 16.4 gallons of water. The fruits and vegetables can be continuously sprayed (using coarse spray, or submerged (dipped) in the resulting solution. Periodic or continuous addition of this product to maintain the required concentration may be added as necessary. Contact time of 60 seconds is recommended to insure efficacy. A potable water rinse is not required. This product is not intended for use in primary flumes prior to the point of the first dewatering stage.

#### AGRICULTURAL OR HORTICULTURAL USES

There is a Restricted-Entry-Interval of zero (0) hours after the use of this product. This product should never be mixed or combined with any other pesticide or fertilizer. Upon soil contact this diluted product decomposes rapidly to oxygen, carbon dioxide and water. This product may be harmful to fish if exposed on a continuous basis at concentrations of 1 ppm or more of active peroxyacetic acid. Meter this product into pressurized pipes using a plastic or stainless steel injection/backflow device installed far enough upstream from the equipment to insure thorough mixing. For open flowing bodies of water, apply this product as far upstream as possible to allow adequate mixing prior to the flow entering any larger body of water. If open pouring of this product is required, pour product as close to the surface of the water as possible to reduce odor exposure.

#### TREATMENT OF AGRICULTURAL OR IRRIGATION WATER SYSTEMS (SANDFILTERS, HUMIDIFICATION SYSTEMS, STORAGE TANKS, PLANTS, PRESERVED CANALS)

For the control of sulfides, odor, slime and algae in water systems, apply this product at 2-10 ppm active peroxyacetic acid. This feed rate equals 15-75 fl. oz. per 10,000 gallons of water. Repeat dose as necessary to maintain control, which will vary with seasonal conditions. For prevention of algae, some systems may require continuous low level dosing during warm sunny periods (2-5 ppm peroxyacetic acid).

Drip Irrigation Systems: To clean slime and algae from drip system filters, tapes and emitters, meter this product at the rate of 7.5-15 fl. oz. per 1000 gallons of water (10-20 ppm peroxyacetic acid). When required during normal irrigation cycles, use this product at the recommended dose for a minimum of 30 minutes. Thereafter, the irrigation cycle should be discontinued and the line should not be flushed.

#### FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VEGETABLE SURFACES

PERACLEAN® 15 can be applied as a dip or spray to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the washing process. product can be applied during physical cleaning processes, including roller spreader, washer manifold, dip tank, on the brushes or elsewhere the washing process prior to, simultaneously with or after detergent wash.

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 peroxide.

2.Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a 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 MICROORGANISMS THAT CAN CAUSE SPOILAGE

1.Prepare treating solution by diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.

2.Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR173.315 (a) 5.

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

4.Do not reuse solution after treatment.

Bactericidal, Virucidal*, 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, shelves, racks, carts, refrigerators, 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, chrome, 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, pharmacies, and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational 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 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled clouded or diluted.

This product is not for use on medical device surfaces.

{OR}
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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids.
Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning 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 inactivated after 1 minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved 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-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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 viruses.\ |
| 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 | |

EVONIK INDUSTRIES

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

OMRI Listed

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 reducing bacteria, that lead to reservoir souring and metal corrosion.
This product must be introduced through a closed mixed/loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

Drilling Muds, Fracturing Fluids, Well Squeezed Fluids

For the preservation of drilling muds, workover and completion fluids 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 1000 gallons of water (100 ppm) as required. Depending on the 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 per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.
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.
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 hydrocarbon storage tanks, piping and transportation 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 phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase. Treatment may be applied daily or monthly for both storage and
transportation systems as needed.

For Disinfection of Sewage and Wastewater Effluents in Treatment Plants

Use PERACLEAN® 15 to treat sewage and wastewater effluent related to public and private wastewater treatment plants.
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 facilities will depend on the degree of bioloading of the effluent stream to be discharged and the local microbial discharge limit. Adjust application rate to meet the need of the individual facility.

1.Add PERACLEAN® 15 to effluent water at a concentration of 0.5 ppm to 15 ppm. Allow contact time of approximately 15 to 60 minutes.

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

Influent Water Systems
PERACLEAN® 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 PERACLEAN® 15).

Mill Process Waters
•Continuous Feed – PERACLEAN® 15 should be fed continuously at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.
•Intermittent Feed – PERACLEAN® 15 should be fed intermittently (6 to 8 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 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 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.

## STORAGE AND DISPOSAL

Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 Offi guidance.
**CONTAINER DISPOSAL:** Nonrefillable con
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:**
Triple 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 ¼ 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 times.
**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

# PROCESSING REQUEST

**Reg #** 54289-4 **Decision #** 502756

**Description:** ccbd Amendment

**Electronic Label & Letter** (see PPLS): **OR** **Non Electronic Label & Letter** (Scanning required):

☑ Dated: 7/6/15 ☐ Dated:

***Only one label type should be selected***

## Other Materials Sent (see jacket):

☐ New CSF(s) Dated:

☐ Other:

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

**Reviewer:** TN

**Division:** AD

**Phone:** 347-0265 **Date:** 7/8/15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

July 6, 2015

Tiana Rosamilla
Evonik Corporation
299 Jefferson Road
Parsippany, NJ 07054

Subject: Label Amendment – Add Fruit and Vegetable Wash Language
Product Name: PERACLEAN™ 15
EPA Registration Number: 54289-4
Application Date: March 13, 2015
Decision Number: 502756

Dear Ms. Rosamilla:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

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 it's implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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.

If you have any questions, please contact Terria Northern by phone at 703-347-0265, or via email at northern.terria@epa.gov.

Sincerely,

John Hebert
Branch Chief for,
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure: Accepted Label

# PERACLEAN ® WW 15
# (Peroxyacetic Acid Solution)

PERACLEAN® WW 15 is a peroxyacetic acid-based biocide developed For Disinfection of Sewage and Wastewater Effluents inTreatment Plants

| | | |
|---|---|---|
| Active Ingredients: | Hydrogen Peroxide | 14.3% |
| | Peroxyacetic Acid | 15.0% |
| | Inert Ingredients: | 70.7% |
| Total: | | 100% |

EPA Reg. No. 54289-XX
EPA Estab. No.

ACCEPTED
54289-4
07/06/2015

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

## KEEP OUT OF REACH OF CHILDREN

## DANGER

FIRST AID

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.

**If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.

**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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**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, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

PHYSICAL AND CHEMICAL HAZARDS

**STRONG OXIDIZING AGENT.** Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. PERACLEAN® WW 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 invertebrates, mussels and shrimp. 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.

DIRECTIONS FOR USE

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

Use PERACLEAN® WW 15 to treat sewage and wastewater effluent related to public and private wastewater treatment plants.

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

1.Add PERACLEAN® WW 15 to effluent water at a concentration of 0.5 ppm to 15 ppm. Allow contact time of approximately 15 to 60 minutes.

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

**STORAGE AND DISPOSAL**

Storage and Disposal

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

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

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

**CONTAINER DISPOSAL:** Nonrefillable 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:**

Triple 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 ¼ 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 times.

**Containers greater than 5 gallons:**

Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

EVONIK INDUSTRIES

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

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**WASHINGTON, D.C. 20460**

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Generic **DATA MATRIX**

| Date 3/13/2015 | EPA Reg No./File Symbol 54289-4 | Page of |
|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 830.1550/61-1 | Product Identity and Composition | | | | Waived 1 |
| 830.1600/61-2 | Description of the MAterials Used to Produce the Product | | | | Waived 1 |
| 830.1650/61-2 | Description of the Manufacturing Process | | | | Waived 1 |
| 830.1670/61-3 | Discussion of Formation of Impurities | | | | Waived 1 |
| 830.1700/62-1 | Preliminary Analysis | | | | Waived 1 |
| 830.1750/62-2 | Certified Limits | | | | Waived 1 |
| 830.1800/62-3 | Enforcement Analytical Methods | | | | Waived 1 |
| 830.6302/63-2 | Color | | | | Waived 1 |
| 830.6303/63-3 | Physical State | | | | Waived 1 |
| 830.7200/63-5 | Melting Point | | | | Waived 1 |
| 830.7220/63-6 | Boiling Point | | | | Waived 1 |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | Waived 1 |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | Waived 1 |
| 830.7950/63-9 | Vapor Pressure | | | | Waived 1 |
| 830.7370/63-10 | Dissociation Constant | | | | Waived 1 |

| Signature | Name and Title | Date |
|---|---|---|
| Tiana | Tiana Rosamilia Manager | 03/13/2015 |

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Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | | | |

| | | |
|---|---|---|
| Signature | Name and Title<br>Tiana Rosamilia Manager | Date<br>03/13/2015 |

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Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 870.1100/81-1 | Acute Oral Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.1200/81-2 | Acute Dermal Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.1300/81-3 | Acute Inhalation Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2400/81-4 | Primary Eye Irritation | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2500/81-5 | Primary Dermal Irritation | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2600/81-6 | Skin Sensitization | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
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| Signature | Name and Title | Date |
|---|---|---|
| | Tiana Rosamilia Manager | 03/13/2015 |

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Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | American Chemistry Council (C0. No.63394) | PAY | |
| | | | American Chemistry Council (C0. No.63394) | PAY | |
| | | | American Chemistry Council (C0. No.63394) | PAY | |
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Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 830.7370/63-10 | Dissociation Constant | | | | Waived 1 |
| 830.7550/7560/7570/63-11 | Partition Coefficient | | | | Waived 1 |
| 830.7000/63-12 | pH | | | | Waived 1 |
| 830.6313/63-13 | Stability | | | | Waived 1 |
| 830.6314/63-14 | Oxidation/Reduction Chemical Compatibility | | | | Waived 1 |
| 830.6315/63-15 | Flammability | | | | Waived 1 |
| 830.6316/63-16 | Explodability | | | | Waived 1 |
| 830.6317/63-17 | Storage Stability | | | | Waived 1 |
| 830.7100/63-18 | Viscosity | | | | Waived 1 |
| 830.6319/63-19 | Miscibility | | | | Waived 1 |
| 330.6320/63-20 | Corrosion Characteristics | | | | Waived 1 |
| 830.6321/63-21 | Dielectric Breakdown Voltage | | | | Waived 1 |
| | | | | | |
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| Signature | Name and Title | Date |
|---|---|---|
| | Tiana Rosamilia Manager | 03/13/2015 |

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Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | | | |

| Signature | Name and Title | Date |
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Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 71-1 | Acute Avian Oral | | | | Waived 1 |
| 71-2(a) | Acute Avian Diet- Quail | | | | Waived 1 |
| 71-2(a) | Acute Avian Diet- Duck | | | | Waived 1 |
| 72-1(a) | Fish Toxicity- Bluegill | | | | Waived 1 |
| 72-1(c) | Fish Toxicity- Rainbow Trout | | | | Waived 1 |
| 72-2(a) | Invertebrate Toxicity | | | | Waived 1 |
| 870.1100/81-1 | Acute Oral Toxicity- Rat | | | | Waived 1 |
| 870.1200/81-2 | Acute Dermal Toxicity- Rabbit | | | | Waived 1 |
| 870.1300/81-3 | Acute Inhalation Toxicity- Rat | | | | Waived 1 |
| 870.2400/81-4 | Primary Eye Irritation- Rabbit | | | | Waived 1 |
| 870.2500/81-5 | Primary Dermal Irritation | | | | Waived 1 |
| 870.2600/81-6 | Dermal Sensitization | | | | Waived 1 |
| 82-3 | 90-Day Dermal Rodent | | | | Waived 1 |
| 82-4 | 90-Day Inhalation - Rat | | | | Waived 1 |
| 83-3B | Developmental Toxicity - Rabbit | | | | Waived 1 |

| Signature | Name and Title | Date |
|---|---|---|
| Tiana | Tiana Rosamilia Manager | 03/13/2015 |

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Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
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| Signature | Name and Title | Date |
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Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 83-4 | 2-generation Reproduction - Rat | | | | Waived 1 |
| 84-2A | Gene Mutation - Ames | | | | Waived 1 |
| 84-2B | Structural Chromosomal Aberration | | | | Waived 1 |
| 84-4 | Other Genotoxic Effects | | | | Waived 1 |
| Section 158.390 Occupational/ | | | | | Waived 1 |
| residential Exposure | | | | | |
| Section 158.290 Environmental fate | | | | | Waived 1 |
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| Ingredient Hydrogen Peroxide and Peroxyacetic Acid | | |

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
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|---|---|---|
| Signature | Name and Title<br>Tiana Rosamilia Manager | Date<br>03/15/2015 |

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| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 830.1550/61-1 | Product Identity and Composition | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1600/61-2 | Description of the Materials Used to Produce the Product | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1650/61-2 | Description of the Manufacturing Process | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1670/61-3 | Discussion of Formation of Impurities | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1700/62-1 | Preliminary Analysis | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1750/62-2 | Certified Limits | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1800/62-3 | Enforcement Analytical Methods | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.6302/63-2 | Color | | | | footnote 1 |
| 830.6303/63-3 | Physical State | | | | footnote 1 |
| 830.7200/63-5 | Melting Point | | | | footnote 1 |
| 830.7220/63-6 | Boiling Point | | | | NR |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | NR |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | footnote 1 |
| 830.7950/63-9 | Vapor Pressure | | | | NR |
| 830.7370/63-10 | Dissociation Constant | | | | NR |

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Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | Evonik (Co. No. 54289) | OWN | |
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Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| | | | | | |
| 830.7550/7560/7570/63-11 | Partition Coefficient | | | | NR |
| 830.7000/63-12 | pH | | | | Footnote 1 |
| 830.6313/63-13 | Stability | | | | NR |
| 830.6314/63-14 | Oxidation/Reduction Chemical Compatibility | | | | NR |
| 830.6315/63-15 | Flammability | | | | Footnote 1 |
| 830.6316/63-16 | Explodability | | | | NR |
| 830.6317/63-17 | Storage Stability | | Evonik (54289) | | Footnote 2 |
| 830.7100/63-18 | Viscosity | | | | NR |
| 830.6319/63-19 | Miscibility | | | | NR |
| 830.6320/63-20 | Corrosion Characteristics | | | | NA |
| 830.6321/63-21 | Dielectric Breakdown Voltage | | | | NR |
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Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
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Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 870.1100/81-1 | Acute Oral Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.1200/81-2 | Acute Dermal Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.1300/81-3 | Acute Inhalation Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2400/81-4 | Primary Eye Irritation | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2500/81-5 | Primary Dermal Irritation | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2600/81-6 | Skin Sensitization | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
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Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | American Chemistry Council (C0. No.63394) | PAY | |
| | | | American Chemistry Council (C0. No.63394) | PAY | |
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| Tiana [signature] | Tiana Rosamilia Manager | 03/13/2015 |

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Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (c),(d),(e) | AOAC Use Dilution using Serratia Marcescens | 47630801 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution using Salm. Ent. serovar Typhimiurium | 47630802 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental using | 47630803 | Evonik Degussa Corporation (54289) | OWN | |
| | Listeria Monocytogens | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Klebsiella | 47630804 | Evonik Degussa Corporation (54289) | OWN | |
| | pneumoniae | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental using staphlylococcus | 47630805 | Evonik Degussa Corporation (54289) | OWN | |
| | aureus with reduced susceptibility to Vancomycin | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Community | 47630806 | Evonik Degussa Corporation (54289) | OWN | |
| | Associated Methicillin-resistant Staphylococcus aureus | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Methicillin-Resistant | 47630807 | Evonik Degussa Corporation (54289) | OWN | |
| | Staphylococcus aureus | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Shigella dysenteriae | 47630808 | Evonik Degussa Corporation (54289) | OWN | |
| | serotype 1 | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Yersinia enterocolitica | 47630809 | Evonik Degussa Corporation (54289) | OWN | |

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| [redacted] | | | Evonik Degussa Corporation (54289) | OWN | |
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Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Vibrio Cholerea | 47630810 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Methicillin | 47630811 | Evonik Degussa Corporation (54289) | OWN | |
| | resistant Staphylococcus aureus epidermidis | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Stphylococcus | 47630812 | Evonik Degussa Corporation (54289) | OWN | |
| | pyoenes | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Stphylococcus | 47611913 | Evonik Degussa Corporation (54289) | OWN | |
| | aureus ATCC 6538, Pseudomonas aeruginosa ATCC | | | | |
| | 15442, and Salmonella enterica ATCC 10708 | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Escherichia | 47630813 | Evonik Degussa Corporation (54289) | OWN | |
| | coli O157:H7 | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Using Vancomycin-Resistant | 47630814 | Evonik Degussa Corporation (54289) | OWN | |
| | Enterococcus faecalis | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Clostridium perfringens | 47630815 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using | 47630816 | Evonik Degussa Corporation (54289) | OWN | |
| | Acinetobacter baumannii | | | | |

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| [redacted] | | | Evonik Degussa Corporation (54289) | OWN | |
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## DATA MATRIX

| Date 3/13/2015 | EPA Reg No./File Symbol 54289-4 | Page 6 of |
|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (g) | Virucidal Efficacy Test Using Herpes Simplex Virus Type 2 | 47611918 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Human Coronavirus Strain | 47611919 | Evonik Degussa Corporation (54289) | OWN | |
| | 229E | | | | |
| 810.2100 (g) | Virucidal Efficacy Test Using Human Immunodeficiency | 47611920 | Evonik Degussa Corporation (54289) | OWN | |
| | Virus Type 1 | | | | |
| 810.2100 (g) | Virucidal Efficacy Test Using Human Influenza A virus | 47611921 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Human Rotavirus | 47611922 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Polio Virus Type 1 | 47611923 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Respiratory Syncytial | 47611924 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Rhinovirus Type 37 | 47611925 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c), (d), (e) | AOAC Use Dilution Test Supplemental Using Candida | 47630817 | Evonik Degussa Corporation (54289) | OWN | |
| | Albicans | | | | |
| 810.2100 (g) | Virucidal Efficacy Test Using Avian Influenza Virus | 47611927 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Initial Virucidal Efficacy Test Using Bovine Viral | 47611928 | Evonik Degussa Corporation (54289) | OWN | |
| | Diarrhea virus (Surrogate for Human Hepatitis C virus | | | | |

| Signature | Name and Title | Date |
|---|---|---|
| | Tiana Rosamilia Manager | 03/13/2015 |

Form Approved OMB No. 2070-0060

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**WASHINGTON, D.C. 20460**

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| | | |
|---|---|---|
| Date 3/13/2015 | EPA Reg No./File Symbol 54289-4 | Page 6 of |
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |
| Ingredient | | |

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | Evonik Degussa Corporation (54289) | OWN | |
| | | | Evonik Degussa Corporation (54289) | OWN | |
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| | | | Evonik Degussa Corporation (54289) | OWN | |
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| | | | Evonik Degussa Corporation (54289) | OWN | |
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| | | |
|---|---|---|
| Signature | Name and Title<br>Tiana Rosamilia Manager | Date<br>03/13/2015 |

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## DATA MATRIX

| Date 3/13/2015 | EPA Reg No./File Symbol 54289-4 | Page 7 of |
|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (g) | Confirmatory Virucidal Efficacy Test Using Bovine Viral | 47611929 | Evonik Degussa Corporation (54289) | OWN | |
| | Diarrhea virus (Surrogate for Human Hepatitis C virus | | | | |
| 810.2100 (g) | Virucidal Efficacy Test Using Vaccinia Virus | 47611930 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Initial Virucidal Efficacy Test Using Duck Hepatitis | 47611931 | Evonik Degussa Corporation (54289) | OWN | |
| | B Virus (Surrogate for Human Hepatitis B virus) | | | | |
| 810.2100 (g) | Confirmatory Virucidal Efficacy Test Using Duck | 47611932 | Evonik Degussa Corporation (54289) | OWN | |
| | Hepatitis B virus (Surrogate for Human Hepatitis B | | | | |
| 810.2100 (g) | Initial Virucidal Efficacy Test Using Feline calicivirus | 47611933 | Evonik Degussa Corporation (54289) | OWN | |
| | (Surrogate for Human Norovirus) | | | | |
| 810.2100 (g) | Confirmatory Virucidal Efficacy Test Using Feline | 47611934 | Evonik Degussa Corporation (54289) | OWN | |
| | calicivirus (Surrogate for Human Norovirus) | | | | |
| 810.2100 (g) | Initial Virucidal Efficacy Test Herpes Simplex Type 1 | 47611935 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Test Supplemental Using | 47630818 | Evonik Degussa Corporation (54289) | OWN | |
| | Steptococcus pneumoniae | | | | |
| | | | | | |

| Signature | Name and Title | Date |
|---|---|---|
| Tiana | Tiana Rosamilia Registrations Manager | 03/13/2015 |

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|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | Evonik Degussa Corporation (54289) | OWN | |
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| | | | Evonik Degussa Corporation (54289) | OWN | |
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| Signature | Name and Title | Date |
|---|---|---|
| | Tiana Rosamilia Registrations Manager | 03/13/2015 |

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## DATA MATRIX

| Date 3/13/2015 | EPA Reg No./File Symbol 54289-4 | Page 8 of 8 |
|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (c),(d),(e) | AOAC Use Dilution Test Supplemental Using Tichophyton | 47630819 | Evonik Degussa Corporation (54289) | OWN | |
| | mentagrophytes | | | | |
| 810.2100 (h) | AOAC Tuberculocidal Activity of Disinfectants | 47630820 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (m)(2) | Germicidal and Detergent Sanitizing Action of | 48360501 | Evonik Degussa Corporation (54289) | OWN | |
| | Disinfectants using Byssochlamys Fluva ATCC 10099 | | | | |
| | and Asperigillus Versicolor ATCC9577 | | | | |
| 810.2100 (m)(2) | Germicidal and Detergent Sanitizing Action of | 48360502 | Evonik Degussa Corporation (54289) | OWN | |
| | Disinfectants using Saccharomyces cerevisiae | | | | |
| | ATCC 47058, Lactobacillus buchneri ATCC 4005, and | | | | |
| | Pediococcus damnosus ATCC 29358 | | | | |
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| Signature | Name and Title | Date |
|---|---|---|
| | Tiana Rosamilia Manager | 03/13/2015 |

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## DATA MATRIX

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|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | Evonik Degussa Corporation (54289) | OWN | |
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| Signature | Name and Title | Date |
|---|---|---|
| Tiana | Tiana Rosamilia Manager | 03/13/2015 |

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

March 16, 2015

**Tiana M. Rosamilia**
Product Regulatory Services
Phone +443-609-4654
Fax +1 973 929-8040
Tiana.Rosamilia@evonik.com

**Evonik Corporation**
www.evonik.com

**Re: Amendment of PERACLEAN™ 15**

To Whom it May Concern:

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

**TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS:** PERACLEAN 15 can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables for the control of bacteria and fungi in commercial operations and packinghouses.
**Batch, Continuous or Spray System Processes:** Fill vessel containing fruits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the submersion method. Add this product at a rate no more than 80 ppm peroxyacetic acid to the use solution. This can be accomplished by initially adding 1.0 fl. oz. per 16.4 gallons of water. The fruits and vegetables can be continuously sprayed (using coarse spray) or submerged (dipped) in the resulting solution. Periodic or continuous addition of this product to maintain the required concentration may be added as necessary. Contact time of 60 seconds is recommended to insure efficacy. A potable water rinse is not required. This product is not intended for use in primary flumes prior to the point of the first dewatering stage.
**AGRICULTURAL OR HORTICULTURAL USES:** There is a Restricted-Entry-Interval of zero (0) hours after the use of this product. This product should never be mixed or combined with any other pesticide or fertilizer. Upon soil contact this diluted product decomposes rapidly to oxygen, carbon dioxide and water. This product may be harmful to fish if exposed on a continuous basis at concentrations of 1 ppm or more of active peroxyacetic acid. Meter this product into pressurized pipes using a plastic or stainless steel injection/backflow device installed far enough upstream from the equipment to insure thorough mixing. For open flowing bodies of water, apply this product as far upstream as possible to allow adequate mixing prior to the flow entering any larger body of water. If open pouring of this product is required, pour product as close to the surface of the water as possible to reduce odor exposure.
**Treatment of Agricultural or Irrigation Water Systems** (sand filters, humidification systems, storage tanks, ponds, reservoirs, canals): For the control of sulfides, odor, slime and algae in water systems, apply this product at 2-10 ppm active peroxyacetic acid. This feed rate equals 15-75 fl. oz per 10,000 gallons of water. Repeat dose as necessary to maintain control, which will vary with seasonal conditions. For prevention of algae, some systems may require continuous low level dosing during warm sunny periods (2-5 ppm peroxyacetic acid).
**Drip Irrigation Systems:** To clean slime and algae from drip system filters, tapes and emitters, meter this product at the rate of 7.5-15 fl. oz. per 1000 gallons of water (10-20 ppm peroxyacetic acid). When required during normal irrigation cycles, use this product at the recommended dose for a minimum of 30 minutes. Thereafter, the irrigation cycle should be discontinued and the line should not be flushed.

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

Respectfully submitted,

Tiana M. Rosamilia

*Please read instructions on reverse before completing form.*

Form Approved. OMB No. 2070-0060

Print Form

EPA

United States
**Environmental Protection Agency**
Washington, DC 20460

- [ ] Registration
- [x] Amendment
- [x] Other

OPP Identifier Number

## Application for Pesticide - Section I

| | | |
|---|---|---|
| 1. Company/Product Number<br>Evonik Corporation/54289-4 | 2. EPA Product Manager | 3. Proposed Classification<br>[x] None [ ] Restricted |
| 4. Company/Product (Name)<br>Evonik Corporation/ PERACLEAN 15 | PM#<br>33 | |
| 5. Name and Address of Applicant *(Include ZIP Code)*<br>Evonik Corp.<br>299 Jefferson Rd, Parsippany NJ 07054<br>[ ] *Check if this is a new address* | 6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:<br>EPA Reg. No. 63838-2<br>Product Name Bio-side HS 15 | |

## Section - II

- [x] Amendment - Explain below.
- [ ] Resubmission in response to Agency letter dated _____
- [ ] Notification - Explain below.
- [ ] Final printed labels in response to Agency letter dated _____
- [x] "Me Too" Application.
- [ ] Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

To add use language for agricultural and horticultural uses.

## Section - III

1. Material This Product Will Be Packaged In:

| Child-Resistant Packaging | Unit Packaging | Water Soluble Packaging | 2. Type of Container |
|---|---|---|---|
| [ ] Yes* [ ] No | [ ] Yes [ ] No | [ ] Yes [ ] No | [ ] Metal [ ] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____ |
| * *Certification must be submitted* | If "Yes" Unit Packaging wgt. / No. per container | If "Yes" Package wgt / No. per container | |

| | | |
|---|---|---|
| 3. Location of Net Contents Information<br>[ ] Label [ ] Container | 4. Size(s) Retail Container | 5. Location of Label Directions<br>[ ] On Label<br>[ ] On Labeling accompanying product |
| 6. Manner in Which Label is Affixed to Product | [ ] Lithograph [ ] Paper glued [ ] Stenciled | [ ] Other _____ |

## Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

| Name | Title | Telephone No. (Include Area Code) |
|---|---|---|
| Tiana Rosamilia | Manager | 443-609-4654 |

**Certification**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

| | |
|---|---|
| 2. Signature<br>Tiana Rosamilia | 3. Title<br>Manager |
| 4. Typed Name<br>Tiana Rosamilia | 5. Date<br>03/13/2015 |

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

Form Approved OMB Nos. 2070-0060; 2070-0057; 2070-0107; 2070-0122; 2070-0164

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**1200 Pennsylvania Avenue, N.W.**
**WASHINGTON, D.C. 20460**

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## Certification with Respect to Citation of Data

| | |
|---|---|
| Applicant's/Registrant's Name, Address, and Telephone Number<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 443-609-4654 | EPA Registration Number/File Symbol<br>54289-4 |
| Active Ingredient(s) and/or representative test compound(s)<br>Hydrogen Peroxide and Peroxyacetic acid | Date<br>03/13/2015 |
| General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) | Product Name<br>Peraclean 15 |

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT** (Check one method only)

☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

☑ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).

**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☑ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

**SECTION III: CERTIFICATION**

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses .

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (I) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

**I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.**

| Signature | Date | Typed or Printed Name and Title |
|---|---|---|
| Tiana | 03/13/2015 | Tiana Rosamilia Manager |

EPA Form 8570-34 (12-2003) Electronic and Paper versions available. Submit only Paper version.

# PERACLEAN ® 15 ®

## (PEROXYACETIC ACID SOLUTION)

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

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

## FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.
If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.
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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
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, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.
PHYSICAL AND CHEMICAL HAZARDS
STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. 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 invertebrates. 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.

EVONIK INDUSTRIES

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

OMRI Listed

3-27-15

### DIRECTIONS FOR USE

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

### SANITIZATION

NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be used for subsequent sanitizing but may be reused for other purposes such as cleaning.
FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.
PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO3. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

### SANITIZING FOOD CONTACT SURFACES

Effective against Staphylococcus aureus and Escherichia coli.
Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% 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 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 governing sanitary code. Drain thoroughly. Do not rinse.

### TIZING, EATING, DRINKING, AND FOOD PREP UTENSILS

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

### SANITIZING TABLEWARE

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

### BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

PERACLEAN® 15 can be used for the sanitization of ultra filtration, medical and non-medical institutional/industrial reverse osmosis (RO) membranes and their associated distribution systems.
product has been shown to be an effective disinfectant when tested .OAC and EPA methods. This product may not eliminate all vegetative microorganisms in reverse osmosis membranes and their associated piping systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. Check with equipment manufacturer for membrane compatibility with PERACLEAN® 15.
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 prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate 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 334 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 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 reduce residuals.

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

Isolate incompatible equipment from piping system. This includes activated carbon filters and ion exchange equipment. Turn off power to ultraviolet light units. Estimate total volume of water contained in the system (tanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves 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 indicates there is less then 3 ppm peroxygen.

### CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT SURFACES)

PERACLEAN® 15, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the regrowth/ accumulation of biological matter. The 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 PERACLEAN® 15 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition, do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

### HARD SURFACE DISINFECTION

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, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.
Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites; housekeeping services; physical therapy departments; 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 buildings, recreational facilities, 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 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 or semi-critical medical devices prior to sterilization or high level disinfection.**

### COMBINATION DISINFECTION AND CLEANING

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia 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 heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.
PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, PERACLEAN® 15 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 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 areas which are prone to odors caused by microorganisms.
All treated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse.
For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

### DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

#### POULTRY HATCHERY DISINFECTION

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

#### DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HUTCHES, ETC.)

Do not use in milking stalls, milking parlors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

### BIFOULING CONTROL IN PULP AND PAPERMILL SYSTEMS

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact.
PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water 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 influent water streams.
IContamination with other chemicals could result in product decomposition.
•Add PERACLEAN® 15 at a point in the system where uniform mixing and even distribution will occur.
•Use 0.1 to 0.5 lb. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 per 1000 gallons of 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 as required to maintain control.

### 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), Byssochlamys fulva (ATCC 10099), 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 potable water. This provides 2,632 ppm peroxyacetic acid.
2.Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period.(ATCC 47058)
3.Allow containers to drain thoroughly, and then rinse with sterile or potable water.

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

•Severely fouled 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.

### TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS:

PERACLEAN 15 can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables for the control of bacteria and fungi in commercial operations and packinghouses.
Batch, Continuous or Spray System Processes: Fill vessel containing fruits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the submersion method. Add this product at a rate no more than 80 ppm peroxyacetic acid to the use solution. This can be accomplished by initially adding 1.0 fl. oz. per 16.4 gallons of water. The fruits and vegetables can be continuously sprayed (using coarse spray) or submerged (dipped) in the resulting solution. Periodic or continuous addition of this product to maintain the required concentration may be added as necessary. Contact time of 60 seconds is recommended to insure efficacy. A potable water rinse is not required. This product is not intended for use in primary flumes prior to the point of the first dewatering stage.

### AGRICULTURAL OR HORTICULTURAL USES:

There is a Restricted-Entry-Interval of zero (0) hours after the use of this product. This product should never be mixed or combined with any other pesticide or fertilizer. Upon soil contact this diluted product decomposes rapidly to oxygen, carbon dioxide and water. This product may be harmful to fish if exposed on a continuous basis at concentrations of 1 ppm or more of active peroxyacetic acid. Meter this product into pressurized pipes using a plastic or stainless steel injection/backflow device installed far enough upstream from the equipment to insure thorough mixing. For open flowing bodies of water, apply this product as far upstream as possible to allow adequate mixing prior to the flow entering any larger body of water. If open pouring of this product is required, pour product as close to the surface of the water as possible to reduce odor exposure.

### TREATMENT OF AGRICULTURAL OR IRRIGATION WATER SYSTEMS (SAND FILTERS, HUMIDIFICATION SYSTEMS, STORAGE TANKS, PONDS, RESERVOIRS, CANALS):

For the control of sulfides, odor, slime and algae in water systems, apply this product at 2-10 ppm active peroxyacetic acid. This feed rate equals 15-75 fl. oz per 10,000 gallons of water. Repeat dose as necessary to maintain control, which will vary with seasonal conditions. For prevention of algae, some systems may require continuous low level dosing during warm sunny periods (2-5 ppm peroxyacetic acid).
Drip Irrigation Systems: To clean slime and algae from drip system filters, tapes and emitters, meter this product at the rate of 7.5-15 fl. oz. per 1000 gallons of water (10-20 ppm peroxyacetic acid). When required during normal irrigation cycles, use this product at the recommended dose for a minimum of 30 minutes. Thereafter, the irrigation cycle should be discontinued and the line should not be flushed.

### FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VEGETABLE SURFACES

PERACLEAN® 15 can be applied as a dip or spray to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the washing process. This product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with or after detergent wash.
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 peroxide.
2.Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a 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 MICROORGANISMS THAT CAN CAUSE SPOILAGE

1.Prepare treating solution by diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.
2.Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR173.315 (a) 5
3.The treated produce can be drain dried without a potable water rinse.
4.Do not reuse solution after treatment.

Bactericidal, Virucidal∆, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational 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 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled clouded or diluted.

This product is not for use on medical device surfaces.

(OR)
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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning 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 inactivated after 1 minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved 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-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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 viruses∆ |
| 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 | |



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 reducing bacteria, that lead to reservoir souring and metal corrosion.
This product must be introduced through a closed mixed/loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

DRILLING MUDS, FRACTURING FLUIDS, WELL SQUEEZED FLUIDS

For the preservation of drilling muds, workover and completion fluids 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 1000 gallons of water (100 ppm) as required. Depending on the 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 per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.
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.
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 hydrocarbon storage tanks, piping and transportation 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 phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase. Treatment may be applied daily or monthly for both storage and
transportation systems as needed.

FOR DISINFECTION OF SEWAGE AND WASTEWATER EFFLUENTS IN TREATMENT PLANTS

Use PERACLEAN® 15 to treat sewage and wastewater effluent related to public and private wastewater treatment plants.
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 facilities will depend on the degree of bioloading of the effluent stream to be discharged and the local microbial discharge limit. Adjust application rate to meet the need of the individual facility.

1.Add PERACLEAN® 15 to effluent water at a concentration of 0.5 ppm to 15 ppm. Allow contact time of approximately 15 to 60 minutes.

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

INFLUENT WATER SYSTEMS:
PERACLEAN® 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 PERACLEAN® 15).

MILL PROCESS WATERS:
•Continuous Feed – PERACLEAN® 15 should be fed continuously at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.
•Intermittent Feed – PERACLEAN® 15 should be fed intermittently (6 to 8 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 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 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.

## STORAGE AND DISPOSAL

Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Nonrefillable 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:**
Triple 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 ¼ 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 times.

**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

EVONIK INDUSTRIES

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

OMRI Listed

# PERACLEAN ® 15 ⓥ

## (PEROXYACETIC ACID SOLUTION)

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

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

## FIRST AID

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

If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.

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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. 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 invertebrates. 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.

EVONIK INDUSTRIES

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

OMRI Listed

3-27-15

### DIRECTIONS FOR USE

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

### SANITIZATION

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

FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.

PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as $CaCO_3$. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

### SANITIZING FOOD CONTACT SURFACES

Effective against Staphylococcus aureus and Escherichia coli.

Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% 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 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 governing sanitary code. Drain thoroughly. Do not rinse.

### [illegible]TIZING, EATING, DRINKING, AND FOOD PREP UTENSILS

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

### SANITIZING TABLEWARE

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

To insure that the PERACLEAN® 15 sanitizer concentration does not fall below 48 ppm peroxyacetic acid, periodically test the rinse solution with a suitable test kit and adjust the dispensing rate accordingly. Consult your technical service representative for assistance and further information on 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 acid.

### BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

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

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

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 prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate 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 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 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 reduce residuals.

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

Isolate incompatible equipment from piping system. This includes activated carbon filters and ion exchange equipment. Turn off power to ultraviolet light units. Estimate total volume of water contained in the system (tanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves 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 indicates there is less then 3 ppm peroxygen.

### CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT SURFACES)

PERACLEAN® 15, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the regrowth/ accumulation of biological matter. The 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 PERACLEAN® 15 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition, do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

### HARD SURFACE DISINFECTION

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, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites; housekeeping services; physical therapy departments; 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 buildings, recreational facilities, 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 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 or semi-critical medical devices prior to sterilization or high level disinfection.**

### COMBINATION DISINFECTION AND CLEANING

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia coli O157:H7 at 0.08% (0.5 fl. oz./5 gal.) in hard water (400 ppm as $CaCO_3$) and 5% fetal bovine serum on hard nonporous surfaces. For heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.

PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, PERACLEAN® 15 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 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 areas which are prone to odors caused by microorganisms.

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

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

### DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

#### POULTRY HATCHERY DISINFECTION

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

#### DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HUTCHES, ETC.)

Do not use in milking stalls, milking parlors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

### BIFOULING CONTROL IN PULP AND PAPERMILL SYSTEMS

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact.

PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water 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 influent water streams.

Contamination with other chemicals could result in product decomposition.

•Add PERACLEAN® 15 at a point in the system where uniform mixing and even distribution will occur.

•Use 0.1 to 0.5 lb. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 per 1000 gallons of 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 as required to maintain control.

### 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), Byssochlamys fulva (ATCC 10099), 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 potable water. This provides 2,632 ppm peroxyacetic acid.

2.Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period.(ATCC 47058)

3.Allow containers to drain thoroughly, and then rinse with sterile or potable water.

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

•Severely fouled 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.

### TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS:

PERACLEAN 15 can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables for the control of bacteria and fungi in commercial operations and packinghouses.

Batch, Continuous or Spray System Processes: Fill vessel containing fruits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the submersion method. Add this product at a rate no more than 80 ppm peroxyacetic acid to the use solution. This can be accomplished by initially adding 1.0 fl. oz. per 16.4 gallons of water. The fruits and vegetables can be continuously sprayed (using coarse spray) or submerged (dipped) in the resulting solution. Periodic or continuous addition of this product to maintain the required concentration may be added as necessary. Contact time of 60 seconds is recommended to insure efficacy. A potable water rinse is not required. This product is not intended for use in primary flumes prior to the point of the first dewatering stage.

### AGRICULTURAL OR HORTICULTURAL USES:

There is a Restricted-Entry-Interval of zero (0) hours after the use of this product. This product should never be mixed or combined with any other pesticide or fertilizer. Upon soil contact this diluted product decomposes rapidly to oxygen, carbon dioxide and water. This product may be harmful to fish if exposed on a continuous basis at concentrations of 1 ppm or more of active peroxyacetic acid. Meter this product into pressurized pipes using a plastic or stainless steel injection/backflow device installed far enough upstream from the equipment to insure thorough mixing. For open flowing bodies of water, apply this product as far upstream as possible to allow adequate mixing prior to the flow entering any larger body of water. If open pouring of this product is required, pour product as close to the surface of the water as possible to reduce odor exposure.

#### TREATMENT OF AGRICULTURAL OR IRRIGATION WATER SYSTEMS (SAND FILTERS, HUMIDIFICATION SYSTEMS, STORAGE TANKS, PONDS, RESERVOIRS, CANALS):

For the control of sulfides, odor, slime and algae in water systems, apply this product at 2-10 ppm active peroxyacetic acid. This feed rate equals 15-75 fl. oz per 10,000 gallons of water. Repeat dose as necessary to maintain control, which will vary with seasonal conditions. For prevention of algae, some systems may require continuous low level dosing during warm sunny periods (2-5 ppm peroxyacetic acid).

Drip Irrigation Systems: To clean slime and algae from drip system filters, tapes and emitters, meter this product at the rate of 7.5-15 fl. oz. per 1000 gallons of water (10-20 ppm peroxyacetic acid). When required during normal irrigation cycles, use this product at the recommended dose for a minimum of 30 minutes. Thereafter, the irrigation cycle should be discontinued and the line should not be flushed.

#### FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VEGETABLE SURFACES

PERACLEAN® 15 can be applied as a dip or spray to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the washing process. This product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with or after detergent wash.

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 peroxide.

2.Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a 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 diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.

2.Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR173.315 (a) 5

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

4.Do not reuse solution after treatment.

Bactericidal, Virucidal∆, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational 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 surface or instrument that (1) is introduced directly into the human body, or into or in contact with the bloodstream or normally sterile areas of 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled clouded or diluted.

This product is not for use on medical device surfaces.

(OR)
Against HIV-1 (AIDS Virus), HBV, and HCV:
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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning 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 inactivated after 1 minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved 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-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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 viruses∆ |
| 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 | |

EVONIK INDUSTRIES

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

OMRI Listed



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 reducing bacteria, that lead to reservoir souring and metal corrosion.
This product must be introduced through a closed mixed/loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

DRILLING MUDS, FRACTURING FLUIDS, WELL SQUEEZED FLUIDS

For the preservation of drilling muds, workover and completion fluids 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 1000 gallons of water (100 ppm) as required. Depending on the 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 per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.
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.
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 hydrocarbon storage tanks, piping and transportation 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 phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase. Treatment may be applied daily or monthly for both storage and
transportation systems as needed.

FOR DISINFECTION OF SEWAGE AND WASTEWATER EFFLUENTS IN TREATMENT PLANTS

Use PERACLEAN® 15 to treat sewage and wastewater effluent related to public and private wastewater treatment plants.
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 facilities will depend on the degree of bioloading of the effluent stream to be discharged and the local microbial discharge limit. Adjust application rate to meet the need of the individual facility.

1.Add PERACLEAN® 15 to effluent water at a concentration of 0.5 ppm to 15 ppm. Allow contact time of approximately 15 to 60 minutes.

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

INFLUENT WATER SYSTEMS:
PERACLEAN® 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 PERACLEAN® 15).

MILL PROCESS WATERS:
•Continuous Feed – PERACLEAN® 15 should be fed continuously at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.
•Intermittent Feed – PERACLEAN® 15 should be fed intermittently (6 to 8 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 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 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.

## STORAGE AND DISPOSAL

Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Nonrefillable 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:**
Triple 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 ¼ 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 times.

**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

# PERACLEAN ® 15 Ⓥ

## (PEROXYACETIC ACID SOLUTION)

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

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

## FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.
If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.
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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
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, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.
PHYSICAL AND CHEMICAL HAZARDS
STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. 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 invertebrates. 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.

EVONIK INDUSTRIES

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

OMRI Listed

3-27-15

### DIRECTIONS FOR USE

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

### SANITIZATION

NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be used for subsequent sanitizing but may be reused for other purposes such as cleaning.
FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.
PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO3. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

### SANITIZING FOOD CONTACT SURFACES

Effective against Staphylococcus aureus and Escherichia coli.
Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% 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 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 governing sanitary code. Drain thoroughly. Do not rinse.

### SANITIZING, EATING, DRINKING, AND FOOD PREP UTENSILS

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

### SANITIZING TABLEWARE

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

### BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

PERACLEAN® 15 can be used for the sanitization of ultra filtration, medical and non-medical institutional/industrial reverse osmosis (RO) membranes and their associated distribution systems.
This product has been shown to be an effective disinfectant when tested AOAC and EPA methods. This product may not eliminate all vegetative microorganisms in reverse osmosis membranes and their associated piping systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. Check with equipment manufacturer for membrane compatibility with PERACLEAN® 15.
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 prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate 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 334 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 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 reduce residuals.

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

Isolate incompatible equipment from piping system. This includes activated carbon filters and ion exchange equipment. Turn off power to ultraviolet light units. Estimate total volume of water contained in the system (tanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves 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 indicates there is less then 3 ppm peroxygen.

### CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT SURFACES)

PERACLEAN® 15, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the regrowth/ accumulation of biological matter. The 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 PERACLEAN® 15 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition, do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

### HARD SURFACE DISINFECTION

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, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.
Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites, housekeeping services; physical therapy departments; 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 buildings, recreational facilities, 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 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 or semi-critical medical devices prior to sterilization or high level disinfection.**

### COMBINATION DISINFECTION AND CLEANING

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia 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 heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.
PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, PERACLEAN® 15 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 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 areas which are prone to odors caused by microorganisms.
All treated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse.
For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

### DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

#### POULTRY HATCHERY DISINFECTION

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

#### DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HUTCHES, ETC.)

Do not use in milking stalls, milking parlors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

### BIFOULING CONTROL IN PULP AND PAPERMILL SYSTEMS

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact.
PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water 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 influent water streams.
Contamination with other chemicals could result in product decomposition.
•Add PERACLEAN® 15 at a point in the system where uniform mixing and even distribution will occur.
•Use 0.1 to 0.5 lb. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 per 1000 gallons of 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 as required to maintain control.

### 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), Byssochlamys fulva (ATCC 10099), 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 potable water. This provides 2,632 ppm peroxyacetic acid.
2.Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period.(ATCC 47058)
3.Allow containers to drain thoroughly, and then rinse with sterile or potable water.

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

•Severely fouled 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.

### TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS:

PERACLEAN 15 can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables for the control of bacteria and fungi in commercial operations and packinghouses.
Batch, Continuous or Spray System Processes: Fill vessel containing fruits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the submersion method. Add this product at a rate no more than 80 ppm peroxyacetic acid to the use solution. This can be accomplished by initially adding 1.0 fl. oz. per 16.4 gallons of water. The fruits and vegetables can be continuously sprayed (using coarse spray) or submerged (dipped) in the resulting solution. Periodic or continuous addition of this product to maintain the required concentration may be added as necessary. Contact time of 60 seconds is recommended to insure efficacy. A potable water rinse is not required. This product is not intended for use in primary flumes prior to the point of the first dewatering stage.

### AGRICULTURAL OR HORTICULTURAL USES:

There is a Restricted-Entry-Interval of zero (0) hours after the use of this product. This product should never be mixed or combined with any other pesticide or fertilizer. Upon soil contact this diluted product decomposes rapidly to oxygen, carbon dioxide and water. This product may be harmful to fish if exposed on a continuous basis at concentrations of 1 ppm or more of active peroxyacetic acid. Meter this product into pressurized pipes using a plastic or stainless steel injection/backflow device installed far enough upstream from the equipment to insure thorough mixing. For open flowing bodies of water, apply this product as far upstream as possible to allow adequate mixing prior to the flow entering any larger body of water. If open pouring of this product is required, pour product as close to the surface of the water as possible to reduce odor exposure.

### TREATMENT OF AGRICULTURAL OR IRRIGATION WATER SYSTEMS (SAND FILTERS, HUMIDIFICATION SYSTEMS, STORAGE TANKS, PONDS, RESERVOIRS, CANALS):

For the control of sulfides, odor, slime and algae in water systems, apply this product at 2-10 ppm active peroxyacetic acid. This feed rate equals 15-75 fl. oz per 10,000 gallons of water. Repeat dose as necessary to maintain control, which will vary with seasonal conditions. For prevention of algae, some systems may require continuous low level dosing during warm sunny periods (2-5 ppm peroxyacetic acid).
Drip Irrigation Systems: To clean slime and algae from drip system filters, tapes and emitters, meter this product at the rate of 7.5-15 fl. oz. per 1000 gallons of water (10-20 ppm peroxyacetic acid). When required during normal irrigation cycles, use this product at the recommended dose for a minimum of 30 minutes. Thereafter, the irrigation cycle should be discontinued and the line should not be flushed.

### FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VEGETABLE SURFACES

PERACLEAN® 15 can be applied as a dip or spray to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the washing process. This product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with or after detergent wash.
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 peroxide.
2.Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a 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 diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.
2.Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR173.315 (a) 5
3.The treated produce can be drain dried without a potable water rinse.
4.Do not reuse solution after treatment.

Bactericidal, Virucidal∆, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational 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 surface or instrument that (1) is introduced directly into the human body, into or in contact with the bloodstream or normally sterile areas of 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled clouded or diluted.

This product is not for use on medical device surfaces.

(OR)
Kills HIV-1 (AIDS Virus), HBV, and HCV:
Pre-cleaned environmental surfaces/objects previously soiled with 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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning 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 inactivated after 1 minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved 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-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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 viruses∆ |
| 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 | |



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 reducing bacteria, that lead to reservoir souring and metal corrosion.
This product must be introduced through a closed mixed/loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

DRILLING MUDS, FRACTURING FLUIDS, WELL SQUEEZED FLUIDS

For the preservation of drilling muds, workover and completion fluids 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 1000 gallons of water (100 ppm) as required. Depending on the 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 per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.
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.
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 hydrocarbon storage tanks, piping and transportation 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 phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase. Treatment may be applied daily or monthly for both storage and
transportation systems as needed.

FOR DISINFECTION OF SEWAGE AND WASTEWATER EFFLUENTS IN TREATMENT PLANTS

Use PERACLEAN® 15 to treat sewage and wastewater effluent related to public and private wastewater treatment plants.
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 facilities will depend on the degree of bioloading of the effluent stream to be discharged and the local microbial discharge limit. Adjust application rate to meet the need of the individual facility.

1.Add PERACLEAN® 15 to effluent water at a concentration of 0.5 ppm to 15 ppm. Allow contact time of approximately 15 to 60 minutes.

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

INFLUENT WATER SYSTEMS:
PERACLEAN® 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 PERACLEAN® 15).

MILL PROCESS WATERS:
•Continuous Feed – PERACLEAN® 15 should be fed continuously at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.
•Intermittent Feed – PERACLEAN® 15 should be fed intermittently (6 to 8 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 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 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.

## STORAGE AND DISPOSAL
Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Nonrefillable 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:**
Triple 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 ¼ 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 times.
**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

EVONIK INDUSTRIES

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

OMRI Listed

# PERACLEAN ® 15 ⓥ

## (PEROXYACETIC ACID SOLUTION)

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

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

## FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.
If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.
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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
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, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.
PHYSICAL AND CHEMICAL HAZARDS
STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. 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 invertebrates. 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.

EVONIK INDUSTRIES

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Parsippany, New Jersey 07054-0677

OMRI Listed

3-27-15

### DIRECTIONS FOR USE

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

#### SANITIZATION

NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be used for subsequent sanitizing but may be reused for other purposes such as cleaning.
FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.
PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO3. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

#### SANITIZING FOOD CONTACT SURFACES

Effective against Staphylococcus aureus and Escherichia coli.
Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% 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 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 governing sanitary code. Drain thoroughly. Do not rinse.

#### [illegible]ZING, EATING, DRINKING, AND FOOD PREP UTENSILS

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

#### SANITIZING TABLEWARE

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

#### BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

PERACLEAN® 15 can be used for the sanitization of ultra filtration, medical and non-medical institutional/industrial reverse osmosis (RO) membranes and their associated distribution systems.
[illegible]roduct has been shown to be an effective disinfectant when tested [illegible].C and EPA methods. This product may not eliminate all vegetative [illegible]organisms in reverse osmosis membranes and their associated piping systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. Check with equipment manufacturer for membrane compatibility with PERACLEAN® 15.
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 prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate 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 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 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 reduce residuals.

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

Isolate incompatible equipment from piping system. This includes activated carbon filters and ion exchange equipment. Turn off power to ultraviolet light units. Estimate total volume of water contained in the system (tanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves 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 indicates there is less than 3 ppm peroxygen.

#### CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT SURFACES)

PERACLEAN® 15, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the regrowth/ accumulation of biological matter. The 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 PERACLEAN® 15 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition, do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

#### HARD SURFACE DISINFECTION

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, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.
Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites; housekeeping services; physical therapy departments; 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 buildings, recreational facilities, 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 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 or semi-critical medical devices prior to sterilization or high level disinfection.**

#### COMBINATION DISINFECTION AND CLEANING

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia 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 heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.
PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, PERACLEAN® 15 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 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 areas which are prone to odors caused by microorganisms.
All treated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse.
For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

#### POULTRY HATCHERY DISINFECTION

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

#### DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HUTCHES, ETC.)

Do not use in milking stalls, milking parlors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

#### BIFOULING CONTROL IN PULP AND PAPERMILL SYSTEMS

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact.
PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water 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 influent water streams.
Contamination with other chemicals could result in product decomposition.
•Add PERACLEAN® 15 at a point in the system where uniform mixing and even distribution will occur.
•Use 0.1 to 0.5 lb. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 per 1000 gallons of 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 as required to maintain control.

#### 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), Byssochlamys fulva (ATCC 10099), Pediococcus damnosus( ATCC 29358), Lactobacillus buchnen (ATCC 4005), and Saccharomyces cerevisiae.
1.Prepare PERACLEAN® 15 solution by adding 9.85 fl. oz. to 5 gallons potable water. This provides 2,632 ppm peroxyacetic acid.
2.Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period.(ATCC 47058)
3.Allow containers to drain thoroughly, and then rinse with sterile or potable water.

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

•Severely fouled 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.

#### TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS:

PERACLEAN 15 can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables for the control of bacteria and fungi in commercial operations and packinghouses.
Batch, Continuous or Spray System Processes: Fill vessel containing fruits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the submersion method. Add this product at a rate no more than 80 ppm peroxyacetic acid to the use solution. This can be accomplished by initially adding 1.0 fl. oz. per 16.4 gallons of water. The fruits and vegetables can be continuously sprayed (using coarse spray) or submerged (dipped) in the resulting solution. Periodic or continuous addition of this product to maintain the required concentration may be added as necessary. Contact time of 60 seconds is recommended to insure efficacy. A potable water rinse is not required. This product is not intended for use in primary flumes prior to the point of the first dewatering stage.

#### AGRICULTURAL OR HORTICULTURAL USES:

There is a Restricted-Entry-Interval of zero (0) hours after the use of this product. This product should never be mixed or combined with any other pesticide or fertilizer. Upon soil contact this diluted product decomposes rapidly to oxygen, carbon dioxide and water. This product may be harmful to fish if exposed on a continuous basis at concentrations of 1 ppm or more of active peroxyacetic acid. Meter this product into pressurized pipes using a plastic or stainless steel injection/backflow device installed far enough upstream from the equipment to insure thorough mixing. For open flowing bodies of water, apply this product as far upstream as possible to allow adequate mixing prior to the flow entering any larger body of water. If open pouring of this product is required, pour product as close to the surface of the water as possible to reduce odor exposure.

#### TREATMENT OF AGRICULTURAL OR IRRIGATION WATER SYSTEMS (SAND FILTERS, HUMIDIFICATION SYSTEMS, STORAGE TANKS, PONDS, RESERVOIRS, CANALS):

For the control of sulfides, odor, slime and algae in water systems, apply this product at 2-10 ppm active peroxyacetic acid. This feed rate equals 15-75 fl. oz per 10,000 gallons of water. Repeat dose as necessary to maintain control, which will vary with seasonal conditions. For prevention of algae, some systems may require continuous low level dosing during warm sunny periods (2-5 ppm peroxyacetic acid).
Drip Irrigation Systems: To clean slime and algae from drip system filters, tapes and emitters, meter this product at the rate of 7.5-15 fl. oz. per 1000 gallons of water (10-20 ppm peroxyacetic acid). When required during normal irrigation cycles, use this product at the recommended dose for a minimum of 30 minutes. Thereafter, the irrigation cycle should be discontinued and the line should not be flushed.

#### FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VEGETABLE SURFACES

PERACLEAN® 15 can be applied as a dip or spray to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the washing process. This product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with or after detergent wash.
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 peroxide.
2.Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a 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 diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.
2.Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR173.315 (a) 5
3.The treated produce can be drain dried without a potable water rinse.
4.Do not reuse solution after treatment.

Bactericidal, Virucidal∆, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational 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 surface or instrument that (1) is introduced directly into the human body, into or in contact with the bloodstream or normally sterile areas of 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled clouded or diluted.

This product is not for use on medical device surfaces.

(OR)
Kills HIV-1 (AIDS Virus), HBV, and HCV:
Pre-cleaned environmental surfaces/objects previously soiled with 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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning 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 inactivated after 1 minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved 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-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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 viruses∆ |
| 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 9530 |
| | |
| | |
| 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 reducing bacteria, that lead to reservoir souring and metal corrosion.
This product must be introduced through a closed mixed/loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

DRILLING MUDS, FRACTURING FLUIDS, WELL SQUEEZED FLUIDS

For the preservation of drilling muds, workover and completion fluids 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 1000 gallons of water (100 ppm) as required. Depending on the 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 per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.
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.
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 hydrocarbon storage tanks, piping and transportation 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 phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase. Treatment may be applied daily or monthly for both storage and
transportation systems as needed.

FOR DISINFECTION OF SEWAGE AND WASTEWATER EFFLUENTS IN TREATMENT PLANTS

Use PERACLEAN® 15 to treat sewage and wastewater effluent related to public and private wastewater treatment plants.
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 facilities will depend on the degree of bioloading of the effluent stream to be discharged and the local microbial discharge limit. Adjust application rate to meet the need of the individual facility.

1.Add PERACLEAN® 15 to effluent water at a concentration of 0.5 ppm to 15 ppm. Allow contact time of approximately 15 to 60 minutes.

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

INFLUENT WATER SYSTEMS:
PERACLEAN® 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 PERACLEAN® 15).

MILL PROCESS WATERS:
•Continuous Feed – PERACLEAN® 15 should be fed continuously at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.
•Intermittent Feed – PERACLEAN® 15 should be fed intermittently (6 to 8 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 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 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.

## STORAGE AND DISPOSAL
Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Nonrefillable 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:**
Triple 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 ¼ 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 times.
**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

EVONIK INDUSTRIES

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

OMRI Listed

# PERACLEAN ® 15 ⓥ

## (PEROXYACETIC ACID SOLUTION)

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

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

## FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.
If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.
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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
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, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.
PHYSICAL AND CHEMICAL HAZARDS
STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. 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 invertebrates. 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.

EVONIK INDUSTRIES

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

OMRI Listed

### DIRECTIONS FOR USE

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

#### SANITIZATION

NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be used for subsequent sanitizing but may be reused for other purposes such as cleaning.
FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.
PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO3. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

#### SANITIZING FOOD CONTACT SURFACES

Effective against Staphylococcus aureus and Escherichia coli.
Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% 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 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 governing sanitary code. Drain thoroughly. Do not rinse.

#### SANITIZING, EATING, DRINKING, AND FOOD PREP UTENSILS

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

#### SANITIZING TABLEWARE

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

#### BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

PERACLEAN® 15 can be used for the sanitization of ultra filtration, medical and non-medical institutional/industrial reverse osmosis (RO) membranes and their associated distribution systems.
This product has been shown to be an effective disinfectant when tested AOAC and EPA methods. This product may not eliminate all vegetative microorganisms in reverse osmosis membranes and their associated piping systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. Check with equipment manufacturer for membrane compatibility with PERACLEAN® 15.
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 prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate 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 134 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 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 reduce residuals.

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

Isolate incompatible equipment from piping system. This includes activated carbon filters and ion exchange equipment. Turn off power to ultraviolet light units. Estimate total volume of water contained in the system (tanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves 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 indicates there is less then 3 ppm peroxygen.

#### CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT SURFACES)

PERACLEAN® 15, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the regrowth/ accumulation of biological matter. The 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 PERACLEAN® 15 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition, do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

#### HARD SURFACE DISINFECTION

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, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.
Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites; housekeeping services; physical therapy departments; 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 buildings, recreational facilities, 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 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 or semi-critical medical devices prior to sterilization or high level disinfection.**

#### COMBINATION DISINFECTION AND CLEANING

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia 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 heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.
PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, PERACLEAN® 15 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 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 areas which are prone to odors caused by microorganisms.
All treated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse.
For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

#### DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

##### POULTRY HATCHERY DISINFECTION

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

##### DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HUTCHES, ETC.)

Do not use in milking stalls, milking parlors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

#### BIFOULING CONTROL IN PULP AND PAPERMILL SYSTEMS

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact.
PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water 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 influent water streams.
Contamination with other chemicals could result in product decomposition.
•Add PERACLEAN® 15 at a point in the system where uniform mixing and even distribution will occur.
•Use 0.1 to 0.5 lb. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 per 1000 gallons of 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 as required to maintain control.

#### 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), Byssochlamys fulva (ATCC 10099), 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 potable water. This provides 2,632 ppm peroxyacetic acid.
2.Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period.(ATCC 47058)
3.Allow containers to drain thoroughly, and then rinse with sterile or potable water.

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

•Severely fouled 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.

#### TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS:

PERACLEAN 15 can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables for the control of bacteria and fungi in commercial operations and packinghouses.
Batch, Continuous or Spray System Processes: Fill vessel containing fruits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the submersion method. Add this product at a rate no more than 80 ppm peroxyacetic acid to the use solution. This can be accomplished by initially adding 1.0 fl. oz. per 16.4 gallons of water. The fruits and vegetables can be continuously sprayed (using coarse spray) or submerged (dipped) in the resulting solution. Periodic or continuous addition of this product to maintain the required concentration may be added as necessary. Contact time of 60 seconds is recommended to insure efficacy. A potable water rinse is not required. This product is not intended for use in primary flumes prior to the point of the first dewatering stage.

#### AGRICULTURAL OR HORTICULTURAL USES:

There is a Restricted-Entry-Interval of zero (0) hours after the use of this product. This product should never be mixed or combined with any other pesticide or fertilizer. Upon soil contact this diluted product decomposes rapidly to oxygen, carbon dioxide and water. This product may be harmful to fish if exposed on a continuous basis at concentrations of 1 ppm or more of active peroxyacetic acid. Meter this product into pressurized pipes using a plastic or stainless steel injection/backflow device installed far enough upstream from the equipment to insure thorough mixing. For open flowing bodies of water, apply this product as far upstream as possible to allow adequate mixing prior to the flow entering any larger body of water. If open pouring of this product is required, pour product as close to the surface of the water as possible to reduce odor exposure.

##### TREATMENT OF AGRICULTURAL OR IRRIGATION WATER SYSTEMS (SAND FILTERS, HUMIDIFICATION SYSTEMS, STORAGE TANKS, PONDS, RESERVOIRS, CANALS):

For the control of sulfides, odor, slime and algae in water systems, apply this product at 2-10 ppm active peroxyacetic acid. This feed rate equals 15-75 fl. oz per 10,000 gallons of water. Repeat dose as necessary to maintain control, which will vary with seasonal conditions. For prevention of algae, some systems may require continuous low level dosing during warm sunny periods (2-5 ppm peroxyacetic acid).
Drip Irrigation Systems: To clean slime and algae from drip system filters, tapes and emitters, meter this product at the rate of 7.5-15 fl. oz. per 1000 gallons of water (10-20 ppm peroxyacetic acid). When required during normal irrigation cycles, use this product at the recommended dose for a minimum of 30 minutes. Thereafter, the irrigation cycle should be discontinued and the line should not be flushed.

##### FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VEGETABLE SURFACES

PERACLEAN® 15 can be applied as a dip or spray to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the washing process. This product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with or after detergent wash.
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 peroxide.
2.Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a 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 MICROORGANISMS THAT CAN CAUSE SPOILAGE

1.Prepare treating solution by diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.
2.Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR173.315 (a) 5
3.The treated produce can be drain dried without a potable water rinse.
4.Do not reuse solution after treatment.

Bactericidal, Virucidal∆, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational 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 surface or instrument that (1) is introduced directly into the human body, into or in contact with the bloodstream or normally sterile areas of 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled clouded or diluted.

This product is not for use on medical device surfaces.

OR)
Kills HIV-1 (AIDS Virus), HBV, and HCV:
e-cleaned environmental surfaces/objects previously soiled with 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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning 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 inactivated after minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved 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-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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 viruses∆ |
| 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 | |



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 reducing bacteria, that lead to reservoir souring and metal corrosion.
This product must be introduced through a closed mixed/loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

DRILLING MUDS, FRACTURING FLUIDS, WELL SQUEEZED FLUIDS

For the preservation of drilling muds, workover and completion fluids 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 1000 gallons of water (100 ppm) as required. Depending on the 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 per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.
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.
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 hydrocarbon storage tanks, piping and transportation 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 phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase. Treatment may be applied daily or monthly for both storage and transportation systems as needed.

FOR DISINFECTION OF SEWAGE AND WASTEWATER EFFLUENTS IN TREATMENT PLANTS

Use PERACLEAN® 15 to treat sewage and wastewater effluent related to public and private wastewater treatment plants.
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 facilities will depend on the degree of bioloading of the effluent stream to be discharged and the local microbial discharge limit. Adjust application rate to meet the need of the individual facility.

1.Add PERACLEAN® 15 to effluent water at a concentration of 0.5 ppm to 15 ppm. Allow contact time of approximately 15 to 60 minutes.

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

INFLUENT WATER SYSTEMS:
PERACLEAN® 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 PERACLEAN® 15).

MILL PROCESS WATERS:
•Continuous Feed – PERACLEAN® 15 should be fed continuously at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.
•Intermittent Feed – PERACLEAN® 15 should be fed intermittently (6 to 8 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 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 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.

## STORAGE AND DISPOSAL

Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Nonrefillable 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:**
Triple 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 ¼ 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 times.

**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

EVONIK INDUSTRIES

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

OMRI Listed

# PERACLEAN ® 15 ®

## (PEROXYACETIC ACID SOLUTION)

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

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

## FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.
If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.
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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
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, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.
PHYSICAL AND CHEMICAL HAZARDS
STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. 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 invertebrates. 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.

EVONIK INDUSTRIES

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

OMRI Listed

3-27-15

### DIRECTIONS FOR USE

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

### SANITIZATION

NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be used for subsequent sanitizing but may be reused for other purposes such as cleaning.
FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.
PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO3. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

### SANITIZING FOOD CONTACT SURFACES

Effective against Staphylococcus aureus and Escherichia coli.
Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% 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 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 governing sanitary code. Drain thoroughly. Do not rinse.

### SANITIZING, EATING, DRINKING, AND FOOD PREP UTENSILS

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

### SANITIZING TABLEWARE

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

### BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

PERACLEAN® 15 can be used for the sanitization of ultra filtration, medical and non-medical institutional/industrial reverse osmosis (RO) membranes and their associated distribution systems.
This product has been shown to be an effective disinfectant when tested and EPA methods. This product may not eliminate all vegetative unisms in reverse osmosis membranes and their associated piping systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. Check with equipment manufacturer for membrane compatibility with PERACLEAN® 15.
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 prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate volume of 1% solution of the product (0.33 gallon of PERACLEAN® 15 to 00 gallons of water). This will provide 568 ppm of peroxyacetic acid and 34 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 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 reduce residuals.

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

Isolate incompatible equipment from piping system. This includes activated carbon filters and ion exchange equipment. Turn off power to ultraviolet light units. Estimate total volume of water contained in the system (tanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves 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 indicates there is less then 3 ppm peroxygen.

### CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT SURFACES)

PERACLEAN® 15, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the regrowth/ accumulation of biological matter. The 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 PERACLEAN® 15 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition, do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

### HARD SURFACE DISINFECTION

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, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.
Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites; housekeeping services; physical therapy departments; 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 buildings, recreational facilities, 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 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 or semi-critical medical devices prior to sterilization or high level disinfection.**

### COMBINATION DISINFECTION AND CLEANING

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia 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 heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.
PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, PERACLEAN® 15 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 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 areas which are prone to odors caused by microorganisms.
All treated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse.
For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

### DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

#### POULTRY HATCHERY DISINFECTION

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

#### DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HUTCHES, ETC.)

Do not use in milking stalls, milking parlors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

### BIFOULING CONTROL IN PULP AND PAPERMILL SYSTEMS

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact.
PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water 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 influent water streams.
IContamination with other chemicals could result in product decomposition.
•Add PERACLEAN® 15 at a point in the system where uniform mixing and even distribution will occur.
•Use 0.1 to 0.5 lb. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 per 1000 gallons of 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 as required to maintain control.

### 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), Byssochlamys fulva (ATCC 10099), 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 potable water. This provides 2,632 ppm peroxyacetic acid.
2.Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period.(ATCC 47058)
3.Allow containers to drain thoroughly, and then rinse with sterile or potable water.

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

•Severely fouled 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.

### TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS:

PERACLEAN 15 can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables for the control of bacteria and fungi in commercial operations and packinghouses.
Batch, Continuous or Spray System Processes: Fill vessel containing fruits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the submersion method. Add this product at a rate no more than 80 ppm peroxyacetic acid to the use solution. This can be accomplished by initially adding 1.0 fl. oz. per 16.4 gallons of water. The fruits and vegetables can be continuously sprayed (using coarse spray) or submerged (dipped) in the resulting solution. Periodic or continuous addition of this product to maintain the required concentration may be added as necessary. Contact time of 60 seconds is recommended to insure efficacy. A potable water rinse is not required. This product is not intended for use in primary flumes prior to the point of the first dewatering stage.

### AGRICULTURAL OR HORTICULTURAL USES:

There is a Restricted-Entry-Interval of zero (0) hours after the use of this product. This product should never be mixed or combined with any other pesticide or fertilizer. Upon soil contact this diluted product decomposes rapidly to oxygen, carbon dioxide and water. This product may be harmful to fish if exposed on a continuous basis at concentrations of 1 ppm or more of active peroxyacetic acid. Meter this product into pressurized pipes using a plastic or stainless steel injection/backflow device installed far enough upstream from the equipment to insure thorough mixing. For open flowing bodies of water, apply this product as far upstream as possible to allow adequate mixing prior to the flow entering any larger body of water. If open pouring of this product is required, pour product as close to the surface of the water as possible to reduce odor exposure.

#### TREATMENT OF AGRICULTURAL OR IRRIGATION WATER SYSTEMS (SAND FILTERS, HUMIDIFICATION SYSTEMS, STORAGE TANKS, PONDS, RESERVOIRS, CANALS):

For the control of sulfides, odor, slime and algae in water systems, apply this product at 2-10 ppm active peroxyacetic acid. This feed rate equals 15-75 fl. oz per 10,000 gallons of water. Repeat dose as necessary to maintain control, which will vary with seasonal conditions. For prevention of algae, some systems may require continuous low level dosing during warm sunny periods (2-5 ppm peroxyacetic acid).
Drip Irrigation Systems: To clean slime and algae from drip system filters, tapes and emitters, meter this product at the rate of 7.5-15 fl. oz. per 1000 gallons of water (10-20 ppm peroxyacetic acid). When required during normal irrigation cycles, use this product at the recommended dose for a minimum of 30 minutes. Thereafter, the irrigation cycle should be discontinued and the line should not be flushed.

#### FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VEGETABLE SURFACES

PERACLEAN® 15 can be applied as a dip or spray to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the washing process. This product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with or after detergent wash.
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 peroxide.
2.Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a 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 diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.
2.Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR173.315 (a) 5
3.The treated produce can be drain dried without a potable water rinse.
4.Do not reuse solution after treatment.

Bactericidal, Virucidal∆, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational 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 [illegible]rface or instrument that (1) is introduced directly into the human body, [illegible]to or in contact with the bloodstream or normally sterile areas of 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled clouded or diluted.

This product is not for use on medical device surfaces.

(OR)
Kills HIV-1 (AIDS Virus), HBV, and HCV:
[illegible]cleaned environmental surfaces/objects previously soiled with bl[illegible]ody 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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning 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 inactivated after 1 minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved 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-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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 viruses∆ |
| 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

3-27-15

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 reducing bacteria, that lead to reservoir souring and metal corrosion.
This product must be introduced through a closed mixed/loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

DRILLING MUDS, FRACTURING FLUIDS, WELL SQUEEZED FLUIDS

For the preservation of drilling muds, workover and completion fluids 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 1000 gallons of water (100 ppm) as required. Depending on the 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 per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.
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.
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 hydrocarbon storage tanks, piping and transportation 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 phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase. Treatment may be applied daily or monthly for both storage and
transportation systems as needed.

FOR DISINFECTION OF SEWAGE AND WASTEWATER EFFLUENTS IN TREATMENT PLANTS

Use PERACLEAN® 15 to treat sewage and wastewater effluent related to public and private wastewater treatment plants.
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 facilities will depend on the degree of bioloading of the effluent stream to be discharged and the local microbial discharge limit. Adjust application rate to meet the need of the individual facility.

1.Add PERACLEAN® 15 to effluent water at a concentration of 0.5 ppm to 15 ppm. Allow contact time of approximately 15 to 60 minutes.

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

INFLUENT WATER SYSTEMS:
PERACLEAN® 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 PERACLEAN® 15).

MILL PROCESS WATERS:
•Continuous Feed – PERACLEAN® 15 should be fed continuously at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.
•Intermittent Feed – PERACLEAN® 15 should be fed intermittently (6 to 8 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 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 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.

## STORAGE AND DISPOSAL

Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Nonrefillable 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:**
Triple 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 ¼ 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 times.

**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

# Material Sent for Data Extraction

Reg. # -4289-4

Description: _____

☑ Material(s) Sent to Data Extraction Contractors:

- ☑ New Stamped Label Dated 10/15/14
- ☐ Notification Dated _____
- ☐ New CSF(s) Dated _____
- ☐ Other: _____

☑ Decision #: 493476

☐ Other Action/Comments: _____

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: Karen Lee

Phone: 5086237 Division: AD

Date: 10/23/14

## Leavy, Karen

**From:** tiana.rosamilia@evonik.com
**Sent:** Tuesday, October 14, 2014 11:22 AM
**To:** Leavy, Karen
**Cc:** Murasaki, Seiichi
**Subject:** Re (2): Calculations for EPA Reg. No. 54289-4

Hi Karen,

I left a voice message for Eric earlier today. Although the concentrations of peroxide are different the dose rates are exactly the same for both PAA formulations. Our formulation is done on a weight basis and then converted to volume so if you look at other use patterns on their label the volumes that FMC provides for dilution rates would be the same as ours formulations within 1ppm. So I am not sure how to update the label.

Regards,

Tiana Rosamilia, MPH
Manager -Product Regulatory Services
Phone 443-609-4654
Cell: 973-349-5523
Tiana.rosamilia@evonik.com

Evonik Corporation
299 Jefferson Rd.
Parsippany NJ 07054
http://www.evonik.com

This message and any attachments are the property of Evonik Industries and its subsidiaries, are confidential, and may be privileged or otherwise protected from disclosure. This message is intended solely for the use of the addressee. If you receive this e-mail in error, please telephone or e-mail the sender and delete this message and any attachments from your system. If you are not the intended recipient you are strictly prohibited from disclosing, copying, distributing or using any of this information.

From: "Leavy, Karen" <Leavy.Karen@epa.gov>
To: "tiana.rosamilia@evonik.com" <tiana.rosamilia@evonik.com>,
Cc: "Murasaki, Seiichi" <Murasaki.Seiichi@epa.gov>
Date: 10/14/2014 10:15 AM
Subject: Re: Calculations for EPA Reg. No. 54289-4

---

Tiana,

I am wondering if you can provide the calculations for EPA Reg. No. 54289-4 as soon as possible. This is due out 10/19/14 which is on Sunday. I am in the office today as well as Thursday only this week.

KML

DECISION PKG. NO. 4 1476 SUBM. DUE DA 10/19/14

SUBMISSION BAR CODE # 955 209 REVIEWER (AI)

## CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

FILE SYMBOL/REG NO. 54289-4 PM 33 ACTION CODE 302

DESCRIPTOR _____ **FQPA** ✓ **NFQPA** ____

[ ] CHILD RESISTANT PACKAGING: [ ] REQUIRED [ ] NOT REQUIRED

REGISTRATION TYPE: [ ] CONDITIONAL [ ] UNCONDITIONAL [ ] RESTRICTED USE

| DATE ON APPLICATION | EPA RECEIVE DATE | PM RECEIVE DATE |
|---|---|---|
| 07, 18, 14 | 07, 21, 14 | 07, 21, 14 |

| METHOD OF SUPPORT | FORMULATORS EXEMPTION |
|---|---|
| [ ] CITE-ALL [ ] SELECTIVE | [ ] SUBMITTED [ ] NOT SUBMITTED |
| [ ] NOT SUBMITTED [ ] N/A | [ ] N/A |

| REVIEW(S) REQUESTED | DATA PACK # | DATE SENT | DUE DATE | DATE RETURNED |
|---|---|---|---|---|
| CHEMISTRY | | | | |
| EFFICACY | | | | |
| ACUTE TOX. | | | | |
| RASSB TOX. | | | | |
| ENVIRON. FATE | | | | |
| FISH/WILDLIFE | | | | |
| OTHER: : | | | | |

STATUS _____

RESPONSE CODE 1/56 RESPONSE DATE 10/15/14

| SCIENCE GROUP | DIVISION | BRANCH | SECTION | CSF Y/N | LABEL Y/N |
|---|---|---|---|---|---|
| CHEMISTRY | AD | RASSB | CTT | | |
| EFFICACY | AD | RASSB | EET | | |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

OCT 15 2014

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

Subject: Label Amendment
Product Name: Peraclean® 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
Antimicrobials Division (7510P)
Office of Pesticide Programs
Date: October 15, 2014

# PERACLEAN ® 15 ⓥ

## (PEROXYACETIC ACID SOLUTION)

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

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

## FIRST AID

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

If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.

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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. 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 invertebrates. 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.

ACCEPTED
OCT 15 2014
Fungicide, and
for the
54289-4

EVONIK INDUSTRIES

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

OMRI Listed

### DIRECTIONS FOR USE

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

### SANITIZATION

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

FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.

PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/ packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as $CaCO_3$. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

### SANITIZING FOOD CONTACT SURFACES

Effective against Staphylococcus aureus and Escherichia coli.

Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% 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 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 gov[illegible] sanitary code. Drain thoroughly. Do not rinse.

### SAN[illegible] EATING, DRINKING, AND FOOD PREP UTENSILS

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

### SANITIZING TABLEWARE

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

To insure that the PERACLEAN® 15 sanitizer concentration does not fall below 48 ppm peroxyacetic acid, periodically test the rinse solution with a suitable test kit and adjust the dispensing rate accordingly. Consult your technical service representative for assistance and further information on 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 acid.

### BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

PERACLEAN® 15 can be used for the sanitization of ultra filtration, medical and non-medical institutional/industrial reverse osmosis (RO) membranes [illegible] associated distribution systems.

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

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 prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate 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 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 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 reduce residuals.

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

Isolate incompatible equipment from piping system. This includes activated carbon filters and ion exchange equipment. Turn off power to ultraviolet light units. Estimate total volume of water contained in the system (tanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves 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 indicates there is less then 3 ppm peroxygen.

### CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT SURFACES)

PERACLEAN® 15, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the regrowth/ accumulation of biological matter. The 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 PERACLEAN® 15 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition, do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

### HARD SURFACE DISINFECTION

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, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites; housekeeping services; physical therapy departments; 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 buildings, recreational facilities, 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 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 or semi-critical medical devices prior to sterilization or high level disinfection.**

### COMBINATION DISINFECTION AND CLEANING

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia coli O157:H7 at 0.08% (0.5 fl. oz./5 gal.) in hard water (400 ppm as $CaCO_3$) and 5% fetal bovine serum on hard nonporous surfaces. For heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.

PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, PERACLEAN® 15 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 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 areas which are prone to odors caused by microorganisms.

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

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

07-17-14

DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

### POULTRY HATCHERY DISINFECTION

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

### DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HUTCHES, ETC.)

Do not use in milking stalls, milking parlors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

### FOR SANITIZING OF HATCHING EGGS

Prepare a solution of PERACLEAN® 15 by diluting 0.33 fluid ounce PERACLEAN® 15 with 5 gallons of water. As eggs are gathered or prior to setting, apply solution as a coarse spray so as to lightly wet all shell surfaces. 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 compatibility before proceeding with its use.

### 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 product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with or after detergent wash.

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 peroxide.

2.Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a 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 MICROORGANISMS THAT CAN CAUSE SPOILAGE

1.Prepare treating solution by diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.

2.Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR173.315 (a) 5

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

4.Do not reuse solution after treatment.

### BIOFOULING CONTROL IN PULP AND PAPERMILL SYSTEMS

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact.

PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water 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 influent water streams.

Contamination with other chemicals could result in product decomposition.

•Add PERACLEAN® 15 at a point in the system where uniform mixing and even distribution will occur.

•Use 0.1 to 0.5 lb. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 per 1000 gallons of 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 as required to maintain control.

### INFLUENT WATER SYSTEMS:

PERACLEAN® 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 PERACLEAN® 15).

### MILL PROCESS WATERS:

•Continuous Feed – PERACLEAN® 15 should be fed continuously at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.

•Intermittent Feed – PERACLEAN® 15 should be fed intermittently (6 to 6 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 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 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 CONTACT DISPERSED PIGMENTS

PERACLEAN® 15 can be used in the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and diatomaceous earth used in paint and paper production.

Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of pigment slurry. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

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

•Severely fouled 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 PRESERVATION

Not for use in manufacture of material intended for food contact.

PERACLEAN® 15 can be used as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper coatings.

Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of preservative. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

### 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), Byssochlamys fulva (ATCC 10099), 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 potable water. This provides 2,632 ppm peroxyacetic acid.

2.Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period.(ATCC 47058)

3.Allow containers to drain thoroughly, and then rinse with sterile or potable water.

Bactericidal, Virucidal∆, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational 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 [illegible] 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 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled clouded or diluted.

This product is not for use on medical device surfaces.

(OR)
K[illegible]1 (AIDS Virus), HBV, and HCV:
C[illegible]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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning 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 inactivated after 1 minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved 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-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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 viruses∆ |
| 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 3533 |
| | |
| | |
| 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 reducing bacteria, that lead to reservoir souring and metal corrosion.
This product must be introduced through a closed mixed/loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

Drilling Muds, Fracturing Fluids, Well Squeezed Fluids

For the preservation of drilling muds, workover and completion fluids 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 1000 gallons of water (100 ppm) as required. Depending on the 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 per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.
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.
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 hydrocarbon storage tanks, piping and transportation 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 phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase. Treatment may be applied daily or monthly for both storage and
transportation systems as needed.

For Disinfection of Sewage and Wastewater Effluents in Treatment Plants

Use PERACLEAN® 15 to treat sewage and wastewater
effluent related to public and private wastewater treatment plants.
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 facilities will depend on the degree of bioloading of the effluent stream to be discharged and the local microbial discharge limit. Adjust application rate to meet the need of the individual facility.

1.Add PERACLEAN® 15 to effluent water at a concentration of 0.5 ppm to 15 ppm. Allow contact time of approximately 15 to 60 minutes.

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

## STORAGE AND DISPOSAL

Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Nonrefillable 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:**
Triple 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 ¼ 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 times.

**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

EVONIK INDUSTRIES

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

OMRI Listed

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## DATA MATRIX

| | | |
|---|---|---|
| Date 7/18/2014 | EPA Reg No./File Symbol 54289-4 | Page 1 of |
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 830.1550/61-1 | Product Identity and Composition | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1600/61-2 | Description of the Materials Used to Produce the Product | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1650/61-2 | Description of the Manufacturing Process | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1670/61-3 | Discussion of Formation of Impurities | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1700/62-1 | Preliminary Analysis | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1750/62-2 | Certified Limits | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1800/62-3 | Enforcement Analytical Methods | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.6302/63-2 | Color | | | | footnote 1 |
| 830.6303/63-3 | Physical State | | | | footnote 1 |
| 830.7200/63-5 | Melting Point | | | | footnote 1 |
| 830.7220/63-6 | Boiling Point | | | | NR |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | NR |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | footnote 1 |
| 830.7950/63-9 | Vapor Pressure | | | | NR |
| 830.7370/63-10 | Dissociation Constant | | | | NR |

| | | |
|---|---|---|
| Signature | Name and Title<br>Tiana Rosamilia Registrations Manager | Date<br>07/18/2014 |

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Ingredient Hydrogen Peroxide and Peroxyacetic Acid

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| 830.6303/63-3 | Physical State | | | | footnote 1 |
| 830.7200/63-5 | Melting Point | | | | footnote 1 |
| 30.7220/63-6 | Boiling Point | | | | NR |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | NR |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | footnote 1 |
| 830.7950/63-9 | Vapor Pressure | | | | NR |
| 830.7370/63-10 | Dissociation Constant | | | | NR |

| | | |
|---|---|---|
| Signature | Name and Title<br>Tiana Rosamilia Pegistrations Manager | Date<br>07/18/2014 |

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| Ingredient Hydrogen Peroxide and Peroxyacetic Acid | | |

| uideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | Evonik (Co. No. 54289) | OWN | |
| | | | Evonik (Co. No. 54289) | OWN | |
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|---|---|---|
| Signature | Name and Title<br>Tiana Rosamilia Registrations Manager | Date<br>07/18/2014 |

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| Date 7/18/2014 | EPA Reg No./File Symbol 54289-4 | Page 1 of |
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 830.1550/61-1 | Product Identity and Composition | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1600/61-2 | Description of the Materials Used to Produce the Product | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1650/61-2 | Description of the Manufacturing Process | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1670/61-3 | Discussion of Formation of Impurities | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1700/62-1 | Preliminary Analysis | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1750/62-2 | Certified Limits | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1800/62-3 | Enforcement Analytical Methods | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.6302/63-2 | Color | | | | footnote 1 |
| 830.6303/63-3 | Physical State | | | | footnote 1 |
| 830.7200/63-5 | Melting Point | | | | footnote 1 |
| 830.7220/63-6 | Boiling Point | | | | NR |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | NR |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | footnote 1 |
| 830.7950/63-9 | Vapor Pressure | | | | NR |
| 830.7370/63-10 | Dissociation Constant | | | | NR |

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|---|---|---|
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| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |
| Ingredient Hydrogen Peroxide and Peroxyacetic Acid | | |

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | Evonik (Co. No. 54289) | OWN | |
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| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
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| 830.1550/61-1 | Product Identity and Composition | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1600/61-2 | Description of the Materials Used to Produce the Product | 44506501 | Evonik (Co. No. 54289) | OWN | |
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| 830.1670/61-3 | Discussion of Formation of Impurities | 44506501 | Evonik (Co. No. 54289) | OWN | |
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| 830.1800/62-3 | Enforcement Analytical Methods | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.6302/63-2 | Color | | | | footnote 1 |
| 830.6303/63-3 | Physical State | | | | footnote 1 |
| 830.7200/63-5 | Melting Point | | | | footnote 1 |
| 830.7220/63-6 | Boiling Point | | | | NR |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | NR |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | footnote 1 |
| 830.7950/63-9 | Vapor Pressure | | | | NR |
| 830.7370/63-10 | Dissociation Constant | | | | NR |

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| | Tiana Rosamilia Registrations Manager | 07/18/2014 |

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Ingredient Hydrogen Peroxide and Peroxyacetic Acid

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| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |
| Ingredient Hydrogen Peroxide and Peroxyacetic Acid | | |

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| 830.1670/61-3 | Discussion of Formation of Impurities | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1700/62-1 | Preliminary Analysis | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1750/62-2 | Certified Limits | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1800/62-3 | Enforcement Analytical Methods | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.6302/63-2 | Color | | | | footnote 1 |
| 830.6303/63-3 | Physical State | | | | footnote 1 |
| 830.7200/63-5 | Melting Point | | | | footnote 1 |
| 30.7220/63-6 | Boiling Point | | | | NR |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | NR |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | footnote 1 |
| 830.7950/63-9 | Vapor Pressure | | | | NR |
| 830.7370/63-10 | Dissociation Constant | | | | NR |

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|---|---|---|
| Signature | Name and Title<br>Tiana Rosanilia Registrations Manager | Date<br>07/18/2014 |

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| Ingredient Hydrogen Peroxide and Peroxyacetic Acid | | |

| uideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
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| [redacted] | | | Evonik (Co. No. 54289) | OWN | |
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| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 830.1550/61-1 | Product Identity and Composition | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1600/61-2 | Description of the Materials Used to Produce the Product | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1650/61-2 | Description of the Manufacturing Process | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1670/61-3 | Discussion of Formation of Impurities | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1700/62-1 | Preliminary Analysis | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1750/62-2 | Certified Limits | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1800/62-3 | Enforcement Analytical Methods | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.6302/63-2 | Color | | | | footnote 1 |
| 830.6303/63-3 | Physical State | | | | footnote 1 |
| 830.7200/63-5 | Melting Point | | | | footnote 1 |
| 830.7220/63-6 | Boiling Point | | | | NR |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | NR |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | footnote 1 |
| 830.7950/63-9 | Vapor Pressure | | | | NR |
| 830.7370/63-10 | Dissociation Constant | | | | NR |

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| Ingredient Hydrogen Peroxide and Peroxyacetic Acid | |

| uideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | Evonik (Co. No. 54289) | OWN | |
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Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
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| Signature | Name and Title | Date |
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| Tiana | Tiana Rosamilia Registrations Manager | 07/18/2014 |

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| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

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| 830.1600/61-2 | Description of the Materials Used to Produce the Product | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1650/61-2 | Description of the Manufacturing Process | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1670/61-3 | Discussion of Formation of Impurities | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1700/62-1 | Preliminary Analysis | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1750/62-2 | Certified Limits | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1800/62-3 | Enforcement Analytical Methods | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.6302/63-2 | Color | | | | footnote 1 |
| 830.6303/63-3 | Physical State | | | | footnote 1 |
| 830.7200/63-5 | Melting Point | | | | footnote 1 |
| 30.7220/63-6 | Boiling Point | | | | NR |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | NR |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | footnote 1 |
| 830.7950/63-9 | Vapor Pressure | | | | NR |
| 830.7370/63-10 | Dissociation Constant | | | | NR |

| Signature | Name and Title | Date |
|---|---|---|
| | Tiara Rosamilia Registrations Manager | 07/18/2014 |

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

**Agency Internal Use Copy**

Form Approved OMB No. 2070-0060

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**401 M Street, S.W.**
**WASHINGTON, D.C. 20460**

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

## DATA MATRIX

| Date 7/18/2014 | EPA Reg No./File Symbol 54289-4 | Page 1 of |
|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | Evonik (Co. No. 54289) | OWN | |
| | | | Evonik (Co. No. 54289) | OWN | |
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| Signature | Name and Title | Date |
|---|---|---|
| | Tiara Rosamilia Registrations Manager | 07/18/2014 |

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

**Public File Copy**

EVONIK
INDUSTRIES

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

July 18, 2014
**Tiana M. Rosamilia**
Product Regulatory Services
Phone +443-609-4654
Fax +1 973 929-8040
Tiana.Rosamilia@evonik.com

**Evonik Corporation**
www.evonik.com

**Re: Amendment of PERACLEAN™ 15 to add disinfection of sewage and wastewater effluents**

Dear Mr. Swindell:

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

FOR DISINFECTION OF SEWAGE AND WASTEWATER EFFLUENTS IN TREATMENT PLANTS

Use PERACLEAN® 15 to treat sewage and wastewater effluent related to public and private wastewater treatment plants.
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 facilities will depend on the degree of bioloading of the effluent stream to be discharged and the local microbial discharge limit. Adjust application rate to meet the need of the individual facility.

1.Add PERACLEAN® 15 to effluent water at a concentration of 0.5 ppm to 15 ppm. Allow contact time of approximately 15 to 60 minutes.

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

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

Respectfully submitted,

Tiana M. Rosamilia

*Please read instructions on reverse before completing form.*

Form Approved. OMB No. 2070-0060

Print Form

EPA

United States
**Environmental Protection Agency**
Washington, DC 20460

[ ] Registration
[X] Amendment
[ ] Other

OPP Identifier Number

## Application for Pesticide - Section I

| | | |
|---|---|---|
| 1. Company/Product Number<br>Evonik Corporation - 54289 - 4 | 2. EPA Product Manager<br>Marshall Swindell | 3. Proposed Classification<br>[X] None [ ] Restricted |
| 4. Company/Product (Name)<br>Evonik Corp./ PERACLEAN 15 | PM#<br>33 | |
| 5. Name and Address of Applicant *(Include ZIP Code)*<br>Evonik Corp.<br>299 Jefferson Rd Parsippany NJ 07054<br>[ ] *Check if this is a new address* | 6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:<br>EPA Reg. No. _____<br>Product Name _____ | |

## Section - II

[ ] Amendment - Explain below.
[ ] Resubmission in response to Agency letter dated _____
[ ] Notification - Explain below.
[ ] Final printed labels in response to Agency letter dated _____
[X] "Me Too" Application.
[ ] Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

To add usage for waste water and sewage treatment effluent. This language does not require any submission of data and has already been approved for similar peroxyacetic acid products of the same concentration. The language is identical to other labels approved.

## Section - III

1. Material This Product Will Be Packaged In:

| Child-Resistant Packaging | Unit Packaging | Water Soluble Packaging | 2. Type of Container |
|---|---|---|---|
| [ ] Yes* [ ] No | [ ] Yes [ ] No | [ ] Yes [ ] No | [ ] Metal [ ] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____ |
| * *Certification must be submitted* | If "Yes" Unit Packaging wgt. / No. per container | If "Yes" Package wgt / No. per container | |

| | | |
|---|---|---|
| 3. Location of Net Contents Information<br>[ ] Label [ ] Container | 4. Size(s) Retail Container | 5. Location of Label Directions<br>[ ] On Label<br>[ ] On Labeling accompanying product |
| 6. Manner in Which Label is Affixed to Product | [ ] Lithograph [ ] Paper glued [ ] Stenciled | [ ] Other _____ |

## Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

| Name | Title | Telephone No. (Include Area Code) |
|---|---|---|
| Tiana Rosamilia | Manager- PRS | 443-609-4654 |

**Certification**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

3. Date Application Received (Stamped)

| | |
|---|---|
| 2. Signature | 3. Title<br>Manager- PRS |
| 4. Typed Name<br>Tiana Rosamilia | 5. Date<br>07/18/2014 |

# Fee for Service

{9552094~

This package includes the following

- ○ New Registration
- ◉ Amendment

☐ Studies? ☐ Fee Waiver?

☐ volpay % Reduction: ___

for Division

- ◉ AD
- ○ BPPD
- ○ RD

Risk Mgr. 33

| | |
|---|---|
| Receipt No. S- | 955209 |
| EPA File Symbol/Reg. No. | 54289-4 |
| Pin-Punch Date: | 7/21/2014 |

☒ This item is NOT subject to FFS action.

**Action Code:**

Requested:

Granted:

Amount Due: $ _____

**Parent/Child Decisions:**

☐ Inert Cleared for Intended Use ☐ Uncleared Inert in Product

Reviewer: Tom Date: 7/21/14

Remarks:

Do they Need data citations?

Insufficient me-too application

Create/Edit Collections | Utilities | Query Tool | Portal | Help | Exit

S: 955209 Milestone Email:

Regulatory Type: Product Registration - Section 3

Application Type: Amendment

Company: 54289 EVONIK CORPORATION

Resubmission: Yes No

Fee For Service: Yes No

Billable: Yes No

Print Letter

Enter More Information

Tracking

Risk Manager: Antimicrobials Division, Risk Management Team 33

Product #: 54289-4 Product Name: PERACLEAN 15% (PEROXYACETIC ACID SOL

Override#:

Me Too Section3: Me Too Product Name:

Application Date: 18-Jul-2014 OPP Rec'vd Date: 21-Jul-2014

Front End Date: 21-Jul-2014 Risk Manager Send Date: 21-Jul-2014

FFS Due Date: Negotiated Due Date:

OPP Target Date:

| Receipt Content | De |
|---|---|
| Paper Label | |

View/Edit

Fast Track: New Ingredient:

Receipt Description:

Label amendment

New Ingredient Request Date:

New Ingredient Received Date

Form A: Signature Date: Form B Signature Date:

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

July 21, 2014

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

TIANA M. ROSAMILIA
EVONIK CORPORATION
299 JEFFERSON RD.
PARSIPPANY, NJ 07054-

PRODUCT NAME: PERACLEAN 15% (PEROXYACETIC ACID SOLUTION)
COMPANY NAME: EVONIK CORPORATION
OPP IDENTIFICATION NUMBER:
EPA FILE SYMBOL: 54289-4
EPA RECEIPT DATE: 07/21/14

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 33, at (703) 347-8028.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

DECISION PKG. NO. 418969 SUBM. DUE DATE 12/21/13

SUBMISSION BAR CODE # 943969 REVIEWER R. JOHNSON

# CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

FILE SYMBOL/REG NO. 54289-4 PM 33 ACTION CODE 333

DESCRIPTOR Notification FQPA ____ NFQPA ____

[ ] CHILD RESISTANT PACKAGING: [ ] REQUIRED [ ] NOT REQUIRED

REGISTRATION TYPE: [ ] CONDITIONAL [ ] UNCONDITIONAL [ ] RESTRICTED USE

| DATE ON APPLICATION | EPA RECEIVE DATE | PM RECEIVE DATE |
|---|---|---|
| 11/18/13 | 11/21/13 | 12/16/13 |

| METHOD OF SUPPORT | | FORMULATORS EXEMPTION | |
|---|---|---|---|
| [ ] CITE-ALL | [ ] SELECTIVE | [ ] SUBMITTED | [ ] NOT SUBMITTED |
| [ ] NOT SUBMITTED | [ ] N/A | [ ] N/A | |

| REVIEW(S) REQUESTED | DATA PACK # | DATE SENT | DUE DATE | DATE RETURNED |
|---|---|---|---|---|
| CHEMISTRY | | | | |
| EFFICACY | | | | |
| ACUTE TOX. | | | | |
| RASSB TOX. | | | | |
| ENVIRON. FATE | | | | |
| FISH/WILDLIFE | | | | |
| OTHER: | | | | |

STATUS

RESPONSE CODE 1154 RESPONSE DATE 1/31/14

| SCIENCE GROUP | DIVISION | BRANCH | SECTION | CSF Y/N | LABEL Y/N |
|---|---|---|---|---|---|
| CHEMISTRY | AD | EASSB | CTT | | |
| EFFICACY | AD | EASSB | EET | | |

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Tiana M. Rosamilia
299 Jefferson Road
Parsippany NJ
07054

JAN 31 20

Attention: Tiana M. Rosamilia

**Subject:** **PERACLEAN ™ 15**
EPA Registration No: 54289-4
Notification Dated: November 18, 2013

This will acknowledge receipt of your notification submitted under PR Notice 98-10 and make other minor changes to the product label, submitted under the provision of FIFRA Section 3(c)(9).

**Proposed Notification:**

To add additional suppliers

**General Comments:**

Based on a review of the submitted material, the following comments apply:

The Notification dated November 18, to add the new alternate additional suppliers to the inert ingredients is acceptable. This information has been added to your file.

If you have any questions concerning this letter, please contact Zebora Johnson at (703) 308-63417.

Sincerely

Marshall Swindell
Product Manger (33)
Regulatory Management Branch 1
Antimicrobial's Division (7501P)

November 18, 2013

**Tiana M. Rosamilia**
Product Regulatory Services
Phone 443-609-4654
Fax +1 973 929-8040
Tiana.Rosamilia@evonik.com

**Evonik Degussa Corporation**
299 Jefferson Rd
Parsippany NJ 07054
www.evonik.com

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
1200 Pennsylvania Ave. NW
Washington, DC 20460-0001

ATTN: Marshall Swindell
Product Manager, Team 33
Antimicrobials Division

Subject: Notification as per PR Notice 98-10

Product: PERACLEAN™ 15 (EPA Reg. No. 54289-4)

Dear Mr. Swindell,

- Pursuant to PR Notice 98-10 Degussa Corp. herebys notifies EPA of the changes in inert ingredient suppliers to the Confidential Statement of Forumla.

Evonik would like to add a list of additional suppliers for our inert ingredients.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Best regards,

Tiana M. Rosamilia

*Inert ingredient information may be entitled to confidential treatment*

*Product ingredient source information may be entitled to confidential treatment*

Additional suppliers that may be used for PERACLEAN 15:

[redacted]

DECISION PKG. NO. 481020 SUBM. DUE DATE 11/13/13

SUBMISSION BAR CODE # 938347 REVIEWER MT

## CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

FILE SYMBOL/REG NO. 54289-4 PM 33 ACTION CODE 307

DESCRIPTOR Amendment **FQPA** ✓ **NFQPA** ____

[ ] CHILD RESISTANT PACKAGING: [ ] REQUIRED [ ] NOT REQUIRED

REGISTRATION TYPE: [ ] CONDITIONAL [ ] UNCONDITIONAL [ ] RESTRICTED USE

| DATE ON APPLICATION | EPA RECEIVE DATE | PM RECEIVE DATE |
|---|---|---|
| 07/08/13 | 07/16/13 | 07/17/13 |

| METHOD OF SUPPORT | | FORMULATORS EXEMPTION | |
|---|---|---|---|
| [ ] CITE-ALL | [ ] SELECTIVE | [ ] SUBMITTED | [ ] NOT SUBMITTED |
| [ ] NOT SUBMITTED | [ ] N/A | [ ] N/A | |

| REVIEW(S) REQUESTED | DATA PACK # | DATE SENT | DUE DATE | DATE RETURNED |
|---|---|---|---|---|
| CHEMISTRY | | | | |
| EFFICACY | | | | |
| ACUTE TOX. | | | | |
| RASSB TOX. | | | | |
| ENVIRON. FATE | | | | |
| FISH/WILDLIFE | | | | |
| OTHER: : | | | | |

STATUS ____

RESPONSE CODE 1156 RESPONSE DATE ____

| SCIENCE GROUP | DIVISION | BRANCH | SECTION | CSF Y/N | LABEL Y/N |
|---|---|---|---|---|---|
| CHEMISTRY | AD | EASSB | CTT | | |
| EFFICACY | AD | EASSB | EET | | |

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)

# PERACLEAN ® 15 ⓥ

## (PEROXYACETIC ACID SOLUTION)

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

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

## FIRST AID

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

If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.

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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. 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 invertebrates. 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.

ACCEPTED

NOV 27 2013

For the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the registration of EPA Reg. No. 54289-4

EVONIK INDUSTRIES

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

OMRI Listed

### DIRECTIONS FOR USE

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

### SANITIZATION

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

FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.

PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO3. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

### SANITIZING FOOD CONTACT SURFACES

Effective against Staphylococcus aureus and Escherichia coli.

Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% v/v [illegible]ration). This will provide 88 ppm of peroxyacetic acid. At this dil[illegible] [illegible]ACLEAN® 15 is effective against Staphylococcus aureus and Esche[illegible]ia 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 governing sanitary code. Drain thoroughly. Do not rinse.

### SANITIZING, EATING, DRINKING, AND FOOD PREP UTENSILS

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

### SANITIZING TABLEWARE

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

To insure that the PERACLEAN® 15 sanitizer concentration does not fall below 48 ppm peroxyacetic acid, periodically test the rinse solution with a suitable test kit and adjust the dispensing rate accordingly. Consult your technical service representative for assistance and further information on 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 d[illegible]lved in 5 gallons of water). This will provide 88 ppm of peroxyacetic a[illegible]

### BA[illegible] SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

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

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

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 prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate 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 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 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 reduce residuals.

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

Isolate incompatible equipment from piping system. This includes activated carbon filters and ion exchange equipment. Turn off power to ultraviolet light units. Estimate total volume of water contained in the system (tanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves 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 indicates there is less then 3 ppm peroxygen.

### CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT SURFACES)

PERACLEAN® 15, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the regrowth/ accumulation of biological matter. The 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 PERACLEAN® 15 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition, do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

### HARD SURFACE DISINFECTION

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, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites; housekeeping services; physical therapy departments; 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 buildings, recreational facilities, 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 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 or semi-critical medical devices prior to sterilization or high level disinfection.**

### COMBINATION DISINFECTION AND CLEANING

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia 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 heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.

PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, PERACLEAN® 15 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 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 areas which are prone to odors caused by microorganisms.

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

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

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### DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

#### POULTRY HATCHERY DISINFECTION

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

#### DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HUTCHES, ETC.)

Do not use in milking stalls, milking parlors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

#### FOR SANITIZING OF HATCHING EGGS

Prepare a solution of PERACLEAN® 15 by diluting 0.33 fluid ounce PERACLEAN® 15 with 5 gallons of water. As eggs are gathered or prior to setting, apply solution as a coarse spray so as to lightly wet all shell surfaces. 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 compatibility before proceeding with its use.

#### 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 product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with or after detergent wash.

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 peroxide.

2.Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a 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 diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.

2.Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR173.315 (a) 5

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

4.Do not reuse solution after treatment.

### BIOFOULING CONTROL IN PULP AND PAPERMILL SYSTEMS

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact.

PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water 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 influent water streams.

!Contamination with other chemicals could result in product decomposition.

•Add PERACLEAN® 15 at a point in the system where uniform mixing and even distribution will occur.

•Use 0.1 to 0.5 lb. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 per 1000 gallons of 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 as required to maintain control.

#### INFLUENT WATER SYSTEMS:

PERACLEAN® 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 PERACLEAN® 15).

#### MILL PROCESS WATERS:

•Continuous Feed – PERACLEAN® 15 should be fed continuously at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.

•Intermittent Feed – PERACLEAN® 15 should be fed intermittently (6 to 8 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 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 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 CONTACT DISPERSED PIGMENTS

PERACLEAN® 15 can be used in the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and diatomaceous earth used in paint and paper production.

Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of pigment slurry. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

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

•Severely fouled 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 PRESERVATION

Not for use in manufacture of material intended for food contact.

PERACLEAN® 15 can be used as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper coatings.

Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of preservative. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

### 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), Byssochlamys fulva (ATCC 10099), Pediococcus damnosus( ATCC 29358), Lactobacillus buchnen (ATCC 4005), and Saccharomyces cerevisiae.

1.Prepare PERACLEAN® 15 solution by adding 9.85 fl. oz. to 5 gallons potable water. This provides 2,632 ppm peroxyacetic acid.

2.Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period.(ATCC 47058)

3.Allow containers to drain thoroughly, and then rinse with sterile or potable water.

Bactericidal, VirucidalΔ, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in [illegible] homes, other health-care facilities, schools, colleges, veterinary [illegible] animal life science laboratories, industrial facilities, office buildings, recreational 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 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly [illegible] clouded or diluted.

This product is not for use on medical device surfaces.

(OR)
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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning 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 inactivated after 1 minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved 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 virusesΔ |
|---|---|
| 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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 |
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| | |
| Yersinia enterocolitica ATCC 35669 | |

EVONIK INDUSTRIES

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

OMRI Listed

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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 reducing bacteria, that lead to reservoir souring and metal corrosion.
This product must be introduced through a closed mixed/ loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

Drilling Muds, Fracturing Fluids, Well Squeezed Fluids

For the preservation of drilling muds, workover and completion fluids 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 1000 gallons of water (100 ppm) as required. Depending on the 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 per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.
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.
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 hydrocarbon storage tanks, piping and transportation 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 phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase.
Treatment may be applied daily or monthly for both storage and transportation systems as needed.

## STORAGE AND DISPOSAL

Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Nonrefillable 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:**
Triple 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 ¼ 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 times.

**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

Bactericidal, Virucidal∆, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary, animal life science laboratories, industrial facilities, office buildings, recreational 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 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly clouded or diluted.

This product is not for use on medical device surfaces.

(OR)
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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning 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 inactivated after 1 minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved 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-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 epidermidis (MRSE) ATCC 51625 | Rhinovirus Type 37 ATCC 1147 |
| Mycobacterium bovis (TB surrogate)* | |
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| Pseudomonas aeruginosa ATCC 15442 | Human Coronavirus strain 229e |
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| Salmonella enterica ATCC 10708 | Bovine viral diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| Salmonella enterica serovar Typhimurium ATCC 13311 | Duck hepatitis B virus (Human Hepatitis B surrogate) (Hepanda Virus Testing) |
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| Shigella dysentariae serotype 1 ATCC 29026 | |
| Staphylococcus aureus ATCC 6538 | Animal viruses∆ |
| 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 |
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| Yersinia enterocolitica ATCC 35669 | |

EVONIK INDUSTRIES

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

OMRI Listed

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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 reducing bacteria, that lead to reservoir souring and metal corrosion.
This product must be introduced through a closed mixed/ loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

DRILLING MUDS, FRACTURING FLUIDS, WELL SQUEEZED FLUIDS

For the preservation of drilling muds, workover and completion fluids 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 1000 gallons of water (100 ppm) as required. Depending on the 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 per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.
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.
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 hydrocarbon storage tanks, piping and transportation 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 phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase.
Treatment may be applied daily or monthly for both storage and transportation systems as needed.

## STORAGE AND DISPOSAL

Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Nonrefillable 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:**
Triple 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 ¼ 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 times.

**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

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**401 M Street, S.W.**
**WASHINGTON, D.C. 2040**

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## DATA MATRIX

| | | |
|---|---|---|
| Date 11/21/2013 | EPA Reg No./File Symbol 54289-4 | Page 1 of 4 |
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany | Product<br>PRACLEAN 15 - GENERIC | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Somitter | Status | Note |
|---|---|---|---|---|---|
| 830.1550/61-1 | Product Identity and Composition | | | | Waived 1 |
| 830.1600/61-2 | Description of the MAterials Used to Produce the Product | | | | Waived 1 |
| 830.1650/61-2 | Description of the Manufacturing Process | | | | Waived 1 |
| 830.1670/61-3 | Discussion of Formation of Impurities | | | | Waived 1 |
| 830.1700/62-1 | Preliminary Analysis | | | | Waived 1 |
| 830.1750/62-2 | Certified Limits | | | | Waived 1 |
| 830.1800/62-3 | Enforcement Analytical Methods | | | | Waived 1 |
| 830.6302/63-2 | Color | | | | Waived 1 |
| 830.6303/63-3 | Physical State | | | | Waived 1 |
| 830.7200/63-5 | Melting Point | | | | Waived 1 |
| 830.7220/63-6 | Boiling Point | | | | Waived 1 |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | Waived 1 |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | Waived 1 |
| 830.7950/63-9 | Vapor Pressure | | | | Waived 1 |
| 830.7370/63-10 | Dissociation Constant | | | | Waived 1 |

| Signature | Name and Title | Date |
|---|---|---|
| | Tiana Rosamilia Registrations Manager | 11/21/2013 |

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|---|---|---|
| Date 11/21/2013 | EPA Reg No./File Symbol 54289-4 | Page 1 of 4 |
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany | Product<br>PERACLEAN 15 - GENERIC | |
| Ingredient Hydrogen Peroxide and Peroxyacetic Acid | | |

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | | | |

| | | |
|---|---|---|
| Signature | Name and Title<br>Tiana Rosamilia Registrations Manager | Date<br>11/21/2013 |

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|---|---|---|
| Date 11/21/2013 | EPA Reg No./File Symbol 54289-4 | Page 2 of 4 |
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15- GENERIC | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 830.7370/63-10 | Dissociation Constant | | | | Waived 1 |
| 830.7550/7560/7570/63-11 | Partition Coefficient | | | | Waived 1 |
| 830.7000/63-12 | pH | | | | Waived 1 |
| 830.6313/63-13 | Stability | | | | Waived 1 |
| 830.6314/63-14 | Oxidation/Reduction Chemical Compatibility | | | | Waived 1 |
| 830.6315/63-15 | Flammability | | | | Waived 1 |
| 830.6316/63-16 | Explodability | | | | Waived 1 |
| 830.6317/63-17 | Storage Stability | | | | Waived 1 |
| 830.7100/63-18 | Viscosity | | | | Waived 1 |
| 830.6319/63-19 | Miscibility | | | | Waived 1 |
| 830.6320/63-20 | Corrosion Characteristics | | | | Waived 1 |
| 830.6321/63-21 | Dielectric Breakdown Voltage | | | | Waived 1 |
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|---|---|---|
| Signature | Name and Title<br>Tiana Rosamilia Registrations Manager | Date<br>11/21/2013 |

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| Date 11/21/2013 | EPA Reg No./File Symbol 54289-4 | Page 2 of 4 |
|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15- GENERIC | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | | | |
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| Signature | Name and Title | Date |
|---|---|---|
| Tiana | Tiana Rosamilia Registrations Manager | 11/21/2013 |

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|---|---|---|
| Date 11/21/2013 | EPA Reg No./File Symbol 54289-4 | Page 3 of 4 |
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 - GENERIC | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 71-1 | Acute Avian Oral | | | | Waived 1 |
| 71-2(a) | Acute Avian Diet- Quail | | | | Waived 1 |
| 71-2(a) | Acute Avian Diet- Duck | | | | Waived 1 |
| 72-1(a) | Fish Toxicity- Bluegill | | | | Waived 1 |
| 72-1(c) | Fish Toxicity- Rainbow Trout | | | | Waived 1 |
| 72-2(a) | Invertebrate Toxicity | | | | Waived 1 |
| 870.1100/81-1 | Acute Oral Toxicity- Rat | | | | Waived 1 |
| 870.1200/81-2 | Acute Dermal Toxicity- Rabbit | | | | Waived 1 |
| 870.1300/81-3 | Acute Inhalation Toxicity- Rat | | | | Waived 1 |
| 870.2400/81-4 | Primary Eye Irritation- Rabbit | | | | Waived 1 |
| 870.2500/81-5 | Primary Dermal Irritation | | | | Waived 1 |
| 870.2600/81-6 | Dermal Sensitization | | | | Waived 1 |
| 82-3 | 90-Day Dermal Rodent | | | | Waived 1 |
| 82-4 | 90-Day Inhalation - Rat | | | | Waived 1 |
| 83-3B | Developmental Toxicity - Rabbit | | | | Waived 1 |

| | | |
|---|---|---|
| Signature Tiana | Name and Title<br>Tiana Rosamilia Registrations Manager | Date<br>11/21/2013 |

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| Date 11/21/2013 | EPA Reg No./File Symbol 54289-4 | Page 3 of 4 |
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 - GENERIC | |
| Ingredient Hydrogen Peroxide and Peroxyacetic Acid | | |

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | | | |

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|---|---|---|
| Signature | Name and Title<br>Tiana Rosamilia Registrations Manager | Date<br>11/21/2013 |

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| Date 11/21/2013 | EPA Reg No./File Symbol 54289-4 | Page 4 of 4 |
|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 -GENERIC | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 83-4 | 2-generation Reproduction - Rat | | | | Waived 1 |
| 84-2A | Gene Mutation - Ames | | | | Waived 1 |
| 84-2B | Structural Chromosomal Aberration | | | | Waived 1 |
| 84-4 | Other Genotoxic Effects | | | | Waived 1 |
| Section 158.390 Occupational/ | | | | | Waived 1 |
| residential Exposure | | | | | |
| Section 158.290 Environmental fate | | | | | Waived 1 |
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| Signature | Name and Title | Date |
|---|---|---|
| Tiana | Tiana Rosamilia Registrations Manager | 11/21/2013 |

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|---|---|---|
| Date 11/21/2013 | EPA Reg No./File Symbol 54289-4 | Page 4 of 4 |
| Applicant's/Registrant's Name & Address<br>Evonik Corporation 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 -GENERIC | |
| Ingredient Hydrogen Peroxide and Peroxyacetic Acid | | |

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | | | |

| | | |
|---|---|---|
| Signature | Name and Title<br>Tiana Rosamilia Registrations Manager | Date<br>11/21/2013 |

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EVONIK
INDUSTRIES

Document Processing Desk (AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency Room S-4900,
One Potomac Yard 2777 South Crystal Drive
Arlington, VA 22202-4501

July 15, 2013

**Tiana M. Rosamilia**
Product Regulatory Services
Phone 443-609-4654
Fax +1 973 541-8040

Tiana.Rosamilia@evonik.com

**Evonik Corporation**
299 Jefferson Rd
Parsippany NJ 07054
www.evonik.com

ATTN: Marshall Swindell
Product Manager, Team 33
Antimicrobials Division

Subject: Amendment for PERACLEAN™ 15 to add claim

Product: PERACLEAN™ 15 (EPA Reg. No. 54289-4)

Dear Mr. Swindell,

Evonik would like to add claims for use in oil field and gas field well operations. These claims have been approved by EPA for formulations similar in composition and labeling to our product, and no public health organisms are claimed on the label.

Enclosed are:

- 6 Copies of the final label
- Data matrix
- Certification with respect to data citation
- Amendment application

Best regards,

Tiana M. Rosamilia
Registrations Manager

*Please read instructions on reverse before comp g form.* Form Approved. No. 2070-0060

Print Form

EPA

United States
**Environmental Protection Agency**
Washington, DC 20460

[ ] Registration
[X] Amendment
[ ] Other

OPP Identifier Number

## Application for Pesticide - Section I

| | | |
|---|---|---|
| 1. Company/Product Number<br>Evonik Corporation/ 54289-4 | 2. EPA Product Manager<br>Marshall Swindell | 3. Proposed Classification<br>[X] None [ ] Restricted |
| 4. Company/Product (Name)<br>Evonik Corp/ Peraclean 15 | PM#<br>33 | |

5. Name and Address of Applicant *(Include ZIP Code)*

Evonik Corp 299 Jefferson Rd
Parsippany NJ 07054

[ ] *Check if this is a new address*

6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. 65402-9

Product Name VigorOx 15/10

## Section - II

[X] Amendment - Explain below.
[ ] Resubmission in response to Agency letter dated _____
[ ] Notification - Explain below.
[ ] Final printed labels in response to Agency letter dated _____
[X] "Me Too" Application.
[ ] Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

To add a use site similar to what has already been approved by EPA for other peracetic acid products for oil and gas fracking.

## Section - III

1. Material This Product Will Be Packaged In:

| Child-Resistant Packaging | Unit Packaging | Water Soluble Packaging | 2. Type of Container |
|---|---|---|---|
| [ ] Yes* [ ] No | [ ] Yes [ ] No | [ ] Yes [ ] No | [ ] Metal [ ] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____ |
| * *Certification must be submitted* | If "Yes" Unit Packaging wgt. / No. per container | If "Yes" Package wgt / No. per container | |

| 3. Location of Net Contents Information | 4. Size(s) Retail Container | 5. Location of Label Directions |
|---|---|---|
| [ ] Label [ ] Container | | [ ] On Label [ ] On Labeling accompanying product |

6. Manner in Which Label is Affixed to Product [ ] Lithograph [ ] Paper glued [ ] Stenciled [ ] Other _____

## Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

| Name | Title | Telephone No. (Include Area Code) |
|---|---|---|
| Tiana Rosamilia | Manager- PRS | 443-609-4654 |

**Certification**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

| 2. Signature | 3. Title |
|---|---|
| Tiana R. | Manager- PRS |
| **4. Typed Name** | **5. Date** |
| Tiana Rosamilia | Jul 8, 2013 |

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## Certification with Respect to Citation of Data

| | |
|---|---|
| Applicant's/Registrant's Name, Address, and Telephone Number<br>Evonik Corp. 299 Jefferson Rd Parsippany NJ 443-609-4654 | EPA Registration Number/File Symbol<br>54289-4 |
| Active Ingredient(s) and/or representative test compound(s)<br>Hydrogen Peroxide and Peroxyacetic acid | Date<br>7/8/2013 |
| General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158)<br>Antimicrobial | Product Name<br>Peraclean 15 |

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT** (Check one method only)

☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

☑ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).

**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

**SECTION III: CERTIFICATION**

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses .

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (I) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

**I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.**

| Signature | Date | Typed or Printed Name and Title |
|---|---|---|
| Tiana | 7/8/2013 | Tiana Rosamilia- Manager PRS |

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End Use **DATA MATRIX**

| | | |
|---|---|---|
| Date 7/8/13 | EPA Reg No./File Symbol 54289-4 | Page 1 of 8 |
| Applicant's/Registrant's Name & Address<br>Evonik Corp. 299 Jefferson Rd. Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 830.1550/61-1 | Product Identity and Composition | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1600/61-2 | Description of the Materials Used to Produce the Product | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1650/61-2 | Description of the Manufacturing Process | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1670/61-3 | Discussion of Formation of Impurities | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1700/62-1 | Preliminary Analysis | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1750/62-2 | Certified Limits | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1800/62-3 | Enforcement Analytical Methods | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.6302/63-2 | Color | | | | footnote 1 |
| 830.6303/63-3 | Physical State | | | | footnote 1 |
| 830.7200/63-5 | Melting Point | | | | footnote 1 |
| 830.7220/63-6 | Boiling Point | | | | NR |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | NR |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | footnote 1 |
| 830.7950/63-9 | Vapor Pressure | | | | NR |
| 830.7370/63-10 | Dissociation Constant | | | | NR |

| Signature | Name and Title | Date |
|---|---|---|
| | Tiana Rosamilia Registrations Manager | 7/8/13 |

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|---|---|
| te 13 | EPA Reg No./File Symbol 54289-4 — Page 2 of 8 |
| plicant's/Registrant's Name & Address: Evonik Corp. 299 Jefferson Rd. Parsippany NJ 07054 | Product: PERACLEAN 15 |

gredient

| ideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| | | | | | |
| 0.7550/7560/7570/63-11 | Partition Coefficient | | | | NR |
| 0.7000/63-12 | pH | | | | Footnote 1 |
| 0.6313/63-13 | Stability | | | | NR |
| 0.6314/63-14 | Oxidation/Reduction Chemical Compatibility | | | | NR |
| 0.6315/63-15 | Flammability | | | | Footnote 1 |
| 0.6316/63-16 | Explodability | | | | NR |
| 0.6 3-17 | Storage Stability | | Evonik (54289) | | Footnote 2 |
| 0.7100/63-18 | Viscosity | | | | NR |
| 0.6319/63-19 | Miscibility | | | | NR |
| 0.6320/63-20 | Corrosion Characteristics | | | | NA |
| 0.6321/63-21 | Dielectric Breakdown Voltage | | | | NR |
| | | | | | |
| | | | | | |
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| Signature | Name and Title | Date |
|---|---|---|
| | Tiana Rosamilia Registrations Manager | 7/8/13 |

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| 'e 7/8/13 | EPA Reg No./File Symbol 54289-4 | Page 3 of 8 |
| Applicant's/Registrant's Name & Address<br>Evonik Corp 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 870.1100/81-1 | Acute Oral Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.1200/81-2 | Acute Dermal Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.1300/81-3 | Acute Inhalation Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2400/81-4 | Primary Eye Irritation | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2500/81-5 | Primary Dermal Irritation | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2600/81-6 | Skin Sensitization | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
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| Signature | Name and Title | Date |
| | Tiana Rosamilia Registrations Manager | 7/8/13 |

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| Applicant's/Registrant's Name & Address<br>Evonik Corp 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (c),(d),(e) | AOAC Use Dilution using Serratia Marcescens | 47630801 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution using Salm. Ent. serovar Typhimiurium | 47630802 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental using | 47630803 | Evonik Degussa Corporation (54289) | OWN | |
| | Listeria Monocytogens | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Klebsiella | 47630804 | Evonik Degussa Corporation (54289) | OWN | |
| | pneumoniae | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental using staphylococcus | 47630805 | Evonik Degussa Corporation (54289) | OWN | |
| | aureus with reduced susceptibility to Vancomycin | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Community | 47630806 | Evonik Degussa Corporation (54289) | OWN | |
| | Associated Methicillin-resistant Staphylococcus aureus | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Methicillin-Resistant | 47630807 | Evonik Degussa Corporation (54289) | OWN | |
| | Staphylococcus aureus | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Shigella dysenteriae | 47630808 | Evonik Degussa Corporation (54289) | OWN | |
| | serotype 1 | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Yersinia enterocolitica | 47630809 | Evonik Degussa Corporation (54289) | OWN | |

| | | |
|---|---|---|
| Signature<br>Tiana R | Name and Title<br>Tiana Rosamilia Registrations Manager | Date 7/8/13 |

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EPA Reg No./File Symbol 54289-4



Applicant's/Registrant's Name & Address
Evonik Corp 299 Jefferson Rd Parsippany NJ 07054

Product
PERACLEAN 15

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Vibrio Cholerea | 47630810 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Methicillin | 47630811 | Evonik Degussa Corporation (54289) | OWN | |
| | resistant Staphylococcus aureus epidermidis | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Stphylococcus | 47630812 | Evonik Degussa Corporation (54289) | OWN | |
| | pyoenes | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Stphylococcus | 47611913 | Evonik Degussa Corporation (54289) | OWN | |
| | aureus ATCC 6538, Pseudomonas aeruginosa ATCC | | | | |
| | 15442, and Salmonella enterica ATCC 10708 | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Escherichia | 47630813 | Evonik Degussa Corporation (54289) | OWN | |
| | coli O157:H7 | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Using Vancomycin-Resistant | 47630814 | Evonik Degussa Corporation (54289) | OWN | |
| | Enterococcus faecalis | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Clostridium perfringens | 47630815 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using | 47630816 | Evonik Degussa Corporation (54289) | OWN | |
| | Acinetobacter baumannii | | | | |

Signature

Name and Title
Tiana Rosamilia Registrations Manager

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| Applicant's/Registrant's Name & Address<br>Evonik Corp. 299 Jefferson Rd. Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (g) | Virucidal Efficacy Test Using Herpes Simplex Virus Type 2 | 47611918 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Human Coronavirus Strain | 47611919 | Evonik Degussa Corporation (54289) | OWN | |
| | 229E | | | | |
| 810.2100 (g) | Virucidal Efficacy Test Using Human Immunodeficiency | 47611920 | Evonik Degussa Corporation (54289) | OWN | |
| | Virus Type 1 | | | | |
| 810.2100 (g) | Virucidal Efficacy Test Using Human Influenza A virus | 47611921 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Human Rotavirus | 47611922 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Polio Virus Type 1 | 47611923 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Respiratory Syncytial | 47611924 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Rhinovirus Type 37 | 47611925 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c), (d), (e) | AOAC Use Dilution Test Supplemental Using Candida | 47630817 | Evonik Degussa Corporation (54289) | OWN | |
| | Albicans | | | | |
| 810.2100 (g) | Virucidal Efficacy Test Using Avian Influenza Virus | 47611927 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Initial Virucidal Efficacy Test Using Bovine Viral | 47611928 | Evonik Degussa Corporation (54289) | OWN | |
| | Diarrhea virus (Surrogate for Human Hepatitis C virus | | | | |

| Signature | Name and Title | Date |
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Applicant's/Registrant's Name & Address: Evonik Corp. 299 Jefferson Rd. Parsippany NJ 07054

Product: PERACLEAN 15

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (g) | Confirmatory Virucidal Efficacy Test Using Bovine Viral | 47611929 | Evonik Degussa Corporation (54289) | OWN | |
| | Diarrhea virus (Surrogate for Human Hepatitis C virus | | | | |
| 810.2100 (g) | Virucidal Efficacy Test Using Vaccinia Virus | 47611930 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Initial Virucidal Efficacy Test Using Duck Hepatitis | 47611931 | Evonik Degussa Corporation (54289) | OWN | |
| | B Virus (Surrogate for Human Hepatitis B virus) | | | | |
| 810.2100 (g) | Confirmatory Virucidal Efficacy Test Using Duck | 47611932 | Evonik Degussa Corporation (54289) | OWN | |
| | Hepatitis B virus (Surrogate for Human Hepatitis B | | | | |
| 810.2100 (g) | Initial Virucidal Efficacy Test Using Feline calicivirus | 47611933 | Evonik Degussa Corporation (54289) | OWN | |
| | (Surrogate for Human Norovirus) | | | | |
| 810.2100 (g) | Confirmatory Virucidal Efficacy Test Using Feline | 47611934 | Evonik Degussa Corporation (54289) | OWN | |
| | calicivirus (Surrogate for Human Norovirus) | | | | |
| 810.2100 (g) | Initial Virucidal Efficacy Test Herpes Simplex Type 1 | 47611935 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Test Supplemental Using | 47630818 | Evonik Degussa Corporation (54289) | OWN | |
| | Steptococcus pneumoniae | | | | |
| | | | | | |

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Applicant's/Registrant's Name & Address
Evonik Corp. 299 Jefferson Rd. Parsippany NJ 07054

Product
PERACLEAN 15

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (c),(d),(e) | AOAC Use Dilution Test Supplemental Using Tichophyton | 47630819 | Evonik Degussa Corporation (54289) | OWN | |
| | mentagrophytes | | | | |
| 810.2100 (h) | AOAC Tuberculocidal Activity of Disinfectants | 47630820 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (m)(2) | Germicidal and Detergent Sanitizing Action of | 48360501 | Evonik Degussa Corporation (54289) | OWN | |
| | Disinfectants using Byssochlamys Fluva ATCC 10099 | | | | |
| | and Asperigillus Versicolor ATCC9577 | | | | |
| 810.2100 (m)(2) | Germicidal and Detergent Sanitizing Action of | 48360502 | Evonik Degussa Corporation (54289) | OWN | |
| | Disinfectants using Saccharomyces cerevisiae | | | | |
| | ATCC 47058, Lactobacillus buchneri ATCC 4005, and | | | | |
| | Pediococcus damnosus ATCC 29358 | | | | |

[1] The Physical and Chemical Characteristic Data can be found on Degussa's Product Specification Sheets, Which were enclosed with the original application package dated 2/25/98 (MRID 445059-00)
[2] Storage Stability Data can be found on the "Discussion of Storage Stability Data Requirement and Waiver Requested" document also enclosed with the original application package dated 2/25/98 (MRID No 445059-00)

Signature

Name and Title
Tiana Rosamilia Registrations Manager

Date 7/8/13

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Applicant's/Registrant's Name & Address
Evonik Corp 299 Jefferson Rd. Parsippany NJ 07054

Product
PERACLEAN 15

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | Evonik (Co. No. 54289) | OWN | |
| | | | Evonik (Co. No. 54289) | OWN | |
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Signature

Name and Title
Tiana Rosamilia Registrations Manager

Date 7/8/13

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| Ingredient | | |

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
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| Ingredient | | |

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | American Chemistry Council (C0. No.63394) | PAY | |
| | | | American Chemistry Council (C0. No.63394) | PAY | |
| | | | American Chemistry Council (C0. No.63394) | PAY | |
| | | | American Chemistry Council (C0. No.63394) | PAY | |
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| Signature | Name and Title | Date |
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| Tiana | Tiana Rosamilia Registrations Manager | 7/8/13 |

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| Applicant's/Registrant's Name & Address<br>Evonik Corp. 299 Jefferson Rd. Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |
| Ingredient | | |

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | Evonik Degussa Corporation (54289) | OWN | |
| | | | Evonik Degussa Corporation (54289) | OWN | |
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| | | | Evonik Degussa Corporation (54289) | OWN | |

| Signature | Name and Title | Date |
|---|---|---|
| Tiana | Tiana Rosamilia Registrations Manager | |

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**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

## DATA MATRIX

| Date 7/8/13 | EPA Reg No./File Symbol 54289-4 | Page 5 of 8 |
|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Corp 299 Jefferson Rd Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | Evonik Degussa Corporation (54289) | OWN | |
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| Signature | Name and Title | Date |
|---|---|---|
| Tiana | Tiana Rosamilia Registrations Manager | 7/8/13 |

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Public File Copy

Form Approved OMB No. 2070-0060

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**401 M Street, S.W.**
**WASHINGTON, D.C. 20460**

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## DATA MATRIX

Date 7/8/13

EPA Reg No./File Symbol 54289-4



Applicant's/Registrant's Name & Address
Evonik Corp. 299 Jefferson Rd. Parsippany NJ 07054

Product
PERACLEAN 15

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| [redacted] | | | Evonik Degussa Corporation (54289) | OWN | |
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Signature

Name and Title
Tiana Rosamilia Registrations Manager

Date 7/8/13

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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## DATA MATRIX

Date 7/8/2013

EPA Reg No./File Symbol 54289-4



Applicant's/Registrant's Name & Address
Evonik Corp 299 Jefferson Rd. Parsippany NJ 07054

Product
PERACLEAN 15

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
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Signature

Name and Title
Tiana Rosamilia Registrations Manager

Date 7/8/13

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Public File Copy

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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## DATA MATRIX

| Date 7/8/2013 | EPA Reg No./File Symbol 54289-4 | Page 8 of 8 |
|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Corp. 299 Jefferson Rd. Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
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| Signature | Name and Title | Date |
|---|---|---|
| Tiana | Tiana Rosamilia Registrations Manager | 7/8/2013 |

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Public File Copy

Document Processing Desk (AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency Room S-4900,
One Potomac Yard 2777 South Crystal Drive
Arlington, VA 22202-4501

November 26, 2013

**Tiana M. Rosamilia**
Product Regulatory Services
Phone 443-609-4654
Fax +1 973 929-8040

Tiana.Rosamilia@evonik.com

ATTN: Marshall Swindell
Product Manager, Team 33
Antimicrobials Division

Subject: Amendment for PERACLEAN™ 15
Product: PERACLEAN™ 15 (EPA Reg. No. 54289-4)

Dear Mr. Swindell,

- On the generic data matrix there is a footnote 1. This footnote designates that those requirements were waived due to the PAA RED.

Best regards,

Tiana M. Rosamilia
Manager

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

July 17, 2013

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

TIANA M. ROSAMILIA
EVONIK CORPORATION
299 JEFFERSON RD.
PARSIPPANY, NJ 07054-

PRODUCT NAME: PERACLEAN 15% (PEROXYACETIC ACID SOLUTION)
COMPANY NAME: EVONIK CORPORATION
OPP IDENTIFICATION NUMBER:
EPA FILE SYMBOL: 54289-4
EPA RECEIPT DATE: 07/16/13

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 33, at (703) 308-6341.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

DECISION PKG. NO. 462106 SUBM. DUE DATE 4/1/12

SUBMISSION BAR CODE # 912689 REVIEWER ZJ

## CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDME

FILE SYMBOL/REG NO. 054289-4 PM 33 ACTION CODE 332 PRIA

DESCRIPTOR Notification FQPA NFQPA

[ ] CHILD RESISTANT PACKAGING: [ ] REQUIRED [ ] NOT REQUIRED

REGISTRATION TYPE: [ ] CONDITIONAL [ ] UNCONDITIONAL [ ] RESTRICTED U

| DATE ON APPLICATION | EPA RECEIVE DATE | PM RECEIVE DATE |
|---|---|---|
| 2/27/12 | 3/2/12 | 3/2/12 |

| METHOD OF SUPPORT | | FORMULATORS EXEMPTION | |
|---|---|---|---|
| [ ] CITE-ALL | [ ] SELECTIVE | [ ] SUBMITTED | [ ] NOT SUBMITTED |
| [ ] NOT SUBMITTED | [ ] N/A | [ ] N/A | |

| REVIEW(S) REQUESTED | DATA PACK # | DATE SENT | DUE DATE | DATE RETURNED |
|---|---|---|---|---|
| CHEMISTRY | | | | |
| EFFICACY | | | | |
| ACUTE TOX. | | | | |
| RASSB TOX. | | | | |
| ENVIRON. FATE | | | | |
| FISH/WILDLIFE | | | | |
| OTHER: | | | | |

STATUS

RESPONSE CODE 1155 RESPONSE DATE

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

MAR 22 2012

Evonik Dequssa Corp
299 Jefferson Rd
Parisppany NJ
07054

Attention: Tiana Rosamilia

**Subject:** **Evonik Degussa/PERACLEAN**
EPA Registration No: 54289-4
Notification: Dated: February 27, 2012

The notification submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable.

**Proposed Notification:**

-To add new source of inert ingredients to the CSF

**General Comments**

The Basic Confidential Statement of Formulas (CFS) dated February 27, 2012 is in compliance with the PR Notice 98-10 and is acceptable and have been made a part of the file for this product.

If you have any questions concerning this letter, please feel free to contact Zebora Johnson at (703) 308-7080.

Sincerely

Marshall Swindell
Product Manger (33)
Regulatory Management Branch I
Antimicrobial's Division (7501P)

February 27, 2012

**Tiana M. Rosamilia**
Product Regulatory Services
Phone 443-609-4654
Fax +1 973 929-8040
Tiana.Rosamilia@evonik.com

**Evonik Degussa Corporation**
299 Jefferson Rd
Parsippany NJ 07054
www.evonik.com

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
1200 Pennsylvania Ave. NW
Washington, DC 20460-0001

ATTN: Marshall Swindell
Product Manager, Team 33
Antimicrobials Division

Subject: Notification as per PR Notice 98-10

Product: PERACLEAN™ 15% (EPA Reg. No. 54289-4)

Dear Mr. Swindell,

- Pursuant to PR Notice 98-10 Degussa Corp. herebys notifies EPA of the changes in inert ingredient suppliers to the Confidential Statement of Forumla.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Best regards,

Tiana M. Rosamilia

Print Form

*Please read instructions on reverse before completing* Form Approved. OMB 2070-0060

EPA

United States
Environmental Protection Agency
Washington, DC 20460

[ ] Registration
[ ] Amendment
[X] Other

OPP Identifier Number

## Application for Pesticide - Section I

| | | |
|---|---|---|
| 1. Company/Product Number<br>Evonik Degussa/ 54289-4 | 2. EPA Product Manager<br>Marshall Swindell | 3. Proposed Classification<br>[X] None [ ] Restricted |
| 4. Company/Product (Name)<br>Evonik Degussa/ PERACLEAN 15 | PM#<br>33 | |

5. Name and Address of Applicant *(Include ZIP Code)*

Evonik Degussa Corp
299 Jefferson Rd, Parsippany NJ 07054

[X] *Check if this is a new address*

6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

## Section - II

[ ] Amendment - Explain below.
[ ] Resubmission in response to Agency letter dated _____
[X] Notification - Explain below.
[ ] Final printed labels in response to Agency letter dated _____
[ ] "Me Too" Application.
[ ] Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

To update the suppliers of inert ingredients on the CSF

## Section - III

1. Material This Product Will Be Packaged In:

| Child-Resistant Packaging | Unit Packaging | Water Soluble Packaging | 2. Type of Container |
|---|---|---|---|
| [ ] Yes* [ ] No | [ ] Yes [ ] No | [ ] Yes [ ] No | [ ] Metal [ ] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____ |
| * *Certification must be submitted* | If "Yes" Unit Packaging wgt. / No. per container | If "Yes" Package wgt / No. per container | |

| | | |
|---|---|---|
| 3. Location of Net Contents Information<br>[ ] Label [ ] Container | 4. Size(s) Retail Container | 5. Location of Label Directions<br>[ ] On Label<br>[ ] On Labeling accompanying product |

6. Manner in Which Label is Affixed to Product [ ] Lithograph [ ] Paper glued [ ] Stenciled [ ] Other _____

## Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

| Name | Title | Telephone No. (Include Area Code) |
|---|---|---|
| Tiana Rosamilia | Registrations Manager | 443-609-4654 |

**Certification**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

| | |
|---|---|
| 2. Signature | 3. Title<br>Registrations Manager |
| 4. Typed Name<br>Tiana Rosamilia | 5. Date<br>Feb 27, 2012 |

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

# Material Sent for Data Extraction

Reg # 54289-4

Description: _____

☐ Material(s) Sent to Data Extraction Contractors:

- ☐ New Stamped Label Dated _____
- ☒ Notification Dated 7/11/14
- ☐ New CSF(s) Dated _____
- ☐ Other: _____

☐ Decision #: _____

☐ Other Action/Comments: _____

_____

Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer: M Swindell

Phone: _____ Division: AD

Date: 7/11/11

Created February 3, 2011

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**WASHINGTON, DC 20460**

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

July 11, 2011

Tiana Rosamili
Evonik Degussa Corporation
379 Interpace Parkway
Parsippany, NJ 07054

ATTN: Tiana Rosamilia

Subject: PERACLEAN™ 15
EPA Reg. No. 54289-4
Notification of Final Printed Label

The submitted final printed labels have been placed in your product file. In accordance with PR Notice 82-2 the labels have not been reviewed.

If you have any questions concerning this letter, please contact Marshall Swindell at (703) 308-6341.

Sincerely yours,

Marshall Swindell

Marshall Swindell
Product Manager 33
Regulatory Management Branch 1
Antimicrobials Division (7510P)

EVONIK INDUSTRIES

Document Processing Desk (AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency Room S-4900,
One Potomac Yard 2777 South Crystal Drive
Arlington, VA 22202-4501

June 21, 2011

**Tiana M. Rosamilia**
Product Regulatory Services
Phone 443-609-4654
Fax +1 973 541-8040

Tiana.Rosamilia@evonik.com

**Evonik Degussa Corporation**
379 Interpace Parkway
Parsippany NJ 07054
www.evonik.com

ATTN: Marshall Swindell
Product Manager, Team 33
Antimicrobials Division

Subject: Amendment for PERACLEAN™ 15 to add claims

Product: PERACLEAN™ 15 (EPA Reg. No. 54289-4)

Dear Mr. Swindell,

Evonik has made the changes requested by EPA to add the words "chewing gum" under Precautionary Statements and to add the ATCC numbers on the label. Here is the final label for your review.

Enclosed are:

- 3 Copies of the final label

Best regards,

Tiana M. Rosamilia
Registrations Manager

Bactericidal, VirucidalΔ, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational 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 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled clouded or diluted.

This product is not for use on medical device surfaces.

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 virusesΔ |
|---|---|
| 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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 |
| | |
| | |
| Yersinia enterocolitica ATCC 35669 | |

EVONIK INDUSTRIES

Manufactured by:
Evonik Degussa Corporation
379 Interpace Parkway, P.O. Box 677
Parsippany, New Jersey 07054-0677

OMRI Listed

IIII

(OR)
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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning 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 inactivated after 1 minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

## STORAGE AND DISPOSAL

Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Nonrefillable 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:**
Triple 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 ¼ 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 times.

**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

NOT REVIEWED
In accordance with PR Notice 82-3
Based on Draft Labeling Dated 7/11/11

# Material Sent for Data Extraction

Reg # 54289-4

Description: _____

☒ Material(s) Sent to Data Extraction Contractors:

- ☐ New Stamped Label Dated _____
- ☐ Notification Dated _____
- ☐ New CSF(s) Dated _____
- ☒ Other: Amendment

☒ Decision #: 444763

☐ Other Action/Comments: _____

Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer: M Terry

Phone: _____ Division: AD

Date: 4/15/11

Created February 3, 2011

DECISION PKG. NO. 444703 SUBM. DUE DATE 7/2/11

SUBMISSION BAR CODE # 888615 REVIEWER MJ

## CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMEND

FILE SYMBOL/REG NO. 54289-4 PM 33 ACTION CODE A570 PRIA

DESCRIPTOR Amendment FQPA ___ NFQPA ___

[ ] CHILD RESISTANT PACKAGING: [ ] REQUIRED [ ] NOT REQUIRED

REGISTRATION TYPE: [ ] CONDITIONAL [ ] UNCONDITIONAL [ ] RESTRICTED

| DATE ON APPLICATION | EPA RECEIVE DATE | PM RECEIVE DATE |
|---|---|---|
| 1 / 5 / 11 | 1 / 10 / 11 | 2 / 03 / 11 |

| METHOD OF SUPPORT | | FORMULATORS EXEMPTION | |
|---|---|---|---|
| [ ] CITE-ALL | [ ] SELECTIVE | [ ] SUBMITTED | [ ] NOT SUBMITTED |
| [ ] NOT SUBMITTED | [ ] N/A | [ ] N/A | |

| REVIEW(S) REQUESTED | DATA PACK # | DATE SENT | DUE DATE | DATE RETURNED |
|---|---|---|---|---|
| CHEMISTRY | | | | |
| EFFICACY | | | | |
| ACUTE TOX. | | | | |
| RASSB TOX. | | | | |
| ENVIRON. FATE | | | | |
| FISH/WILDLIFE | | | | |
| OTHER: : | | | | |

STATUS

RESPONSE CODE ~~155~~ 165 RESPONSE DATE 6/15/11

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

JUN 15 2011

Evonik Degussa Corporation
375 Interpace Parkway
P.O. Box 677
Parsippany, N. J. 07054-0677

Attention: Tiana Rosamila

**Subject: Peraclean®** 15
EPA Registration No. 54289-4
Amendment Dated January 5, 2011

The amendment, submitted in connection with registration under section 3©(7)(A) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, to add use for processed fruits and vegetables, to remove all 3M reference and add PET bottle washing, is acceptable, provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3©(5) and sec. 4 uses when the Agency requires all registrants of similar products to submit such data.

2. Under the "Precautionary Statements" section of the proposed label, change "before eating, drinking, using tobacco, or using the toilet" to read "before eating, drinking, chewing gum, using tobacco, or using the toilet."

3. Add ATCC numbers for all listed microorganisms.

4. Refer to the enclosed copy of the Efficacy Review under "CONCLUSIONS" and "LABELING" for further comments.

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

A stamped copy of the "accepted" product labeling is enclosed for your records. Submit two (2) copies of final printed labeling before you release the product for shipment.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely,

Marshall Swindell
Product Manager 33
Regulatory Management Branch 1
Antimicrobials Division (7510P)

Enclosure

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL
SAFETY AND POLLUTION
PREVENTION

May 23, 2011

**MEMORANDUM**

**Subject:** Efficacy Review for PERACLEAN ® 15; EPA Reg. No. 54289-4; DP Barcode: D387212

**From:** Ibrahim Laniyan, Ph.D.
Microbiologist
Product Science Branch
Antimicrobials Division (7510P)

**Thru:** Tajah Blackburn, Ph.D.
Team Leader
Product Science Branch
Antimicrobials Division (7510P)

5/27/11

**To:** Marshall Swindell / Martha Terry
Regulatory Management Branch I
Antimicrobials Division (7510P)

**Applicant:** Evonik Degussa Corporation
379 Interpace Parkway
Parsippany, NJ 07054-0677

**Formulation from the Label:**

| Active Ingredient | % by wt. |
|---|---|
| Hydrogen Peroxide | 22.0 % |
| Peroxyacetic Acid | 15.0 % |
| Other ingredients | 63.0 % |
| Total | 100.0 % |

## I. BACKGROUND

The product, PERACLEAN ® 15 (EPA Reg. No. 54289-4), is an EPA-approved disinfectant (bactericide, fungicide) and sanitizer for use on hard, non-porous surfaces in commercial, institutional, industrial, food preparation, animal care, and hospital or medical environments. The applicant requested to amend the registration of this product to add new claims for effectiveness as an antimicrobial rinse in reducing the number of non-pathogenic beverage spoiling organisms, including *Aspergillus versicolor*, *Byssochlamys fulva*, *Lactobacillus buchneri*, *Pediococcus damnosus*, and *Saccharomyces cerevisiae*. The label states that the product is effective as a sanitizer in water of up to 400 ppm hardness as $CaCO_3$. Studies were conducted at MICROBIOTEST, located at 105B Carpenter Drive in Sterling, VA 20164.

This data package contained a letter from the applicant to EPA (dated January 5, 2011), two studies (MRID 483605-01 and 483605-02), Statements of No Data Confidentiality Claims for both studies, and the proposed label.

Note: The laboratory reports describe studies conducted for the product, PERACLEAN 5 (EPA Reg. No. 54289-3). The applicant's letter to EPA (dated January 5, 2011) states that the tested product, PERACLEAN 5, is almost identical – when prepared according to label instructions – to the product, PERACLEAN ® 15, which is the subject of this efficacy report.

## II. USE DIRECTIONS

The product is designed for sanitizing hard, non-porous surfaces, including: equipment, pipelines, tanks, vats, fillers, evaporators, and pasteurizers. The proposed label indicates that the product may be used on hard, non-porous surfaces, including: aluminum, baked enamel, chrome, glass, glazed ceramic, glazed porcelain, glazed tile, laminated surfaces, linoleum, painted surfaces, plastic (e.g., polyethylene, polypropylene), sealed stone, stainless steel, and vinyl. Directions on the proposed label provide the following information regarding preparation and use of the product as an antimicrobial rinse in reducing the number of non-pathogenic beverage spoilage organisms: Pre-clean containers. Prepare a use solution by adding 9.85 ounces of the product and 5 gallons of water (a 1:65 dilution). Apply use solution (antimicrobial rinse) at a temperature of 40-60°C and allow a minimum 7-second contact time. Allow containers to dry thoroughly. Rinse with sterile or potable water.

## III. AGENCY STANDARDS FOR PROPOSED CLAIMS

**Sanitizing Rinses (For Previously Cleaned, Food Contact Surfaces; Additional Bacteria):** There are cases where an applicant requests to make claims of effectiveness against additional bacteria for a product that is already registered as a sanitizing rinse for previously cleaned, food contact surfaces. EPA staff indicated that the DIS/TSS-5 standards are silent on this matter and that confirmatory test standards would apply. EPA staff indicated that, for sanitizing rinses for previously cleaned, food contact surfaces, 2 product samples, representing 2 different product lots, must be tested against each additional microorganism. Results must show a bacterial reduction of at least 99.999% in the number of microorganisms within 30 seconds. The results must be reported according to the actual count and the percentage reduction over the control. Furthermore, according to information in the above AOAC test method itself, counts on number controls for the product should fall between 75 and 125 x $10^6$/mL for percent reductions to be

considered valid. Label directions for use, however, must state that a contact time of at least 1 minute is required for sanitization.

**Supplemental Claims:** On a product label, the hard water tolerance level may differ with the level of antimicrobial activity (e.g., sanitizer vs. disinfectant) claimed. To establish efficacy in hard water, all microorganisms (i.e., bacteria, fungi, viruses) claimed to be controlled must be tested by the appropriate Recommended Method at the same hard water tolerance level.

## IV. BRIEF DESCRIPTION OF THE DATA

### 1. MRID 483605-01 "Germicidal and Detergent Sanitizing Action of Disinfectants," Test Organisms: *Aspergillus versicolor* (ATCC 9577) and *Byssochlamys fulva* (ATCC 10099), for PERACLEAN 5, by Angela L. Hollingsworth. Study conducted at MICROBIOTEST. Study completion date – July 13, 2004. Laboratory Project Identification Number 529-102.

This study was conducted against *Aspergillus versicolor* (ATCC 9577) and *Byssochlamys fulva* (ATCC 10099). Two lots (Lot Nos. 1110003 and 2101003) of the product, PERACLEAN 5, were tested. The laboratory report referenced the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. Use solutions were prepared by adding 4.72 or 4.80 mL of the product and 99 mL of 400±2.9% ppm AOAC synthetic hard water (a ~1:22 dilution; 2,632 ppm peroxyacetic acid). Use solutions were not tested in the presence of a 5% organic soil load. Two replicates per product lot were tested. A 99-mL aliquot of each use solution was transferred to a 250 mL Erlenmeyer flask and placed in a water bath at 40°C. One-mL fungi suspension was added to each flask. One-mL aliquots of the fungi-product mixture were transferred to tubes containing D/E Neutralizing Broth exactly 7 seconds after the addition of the fungi suspension. Neutralizer tubes were mixed thoroughly and serially diluted in phosphate buffer dilution water. Selected aliquots were plated in Czapek agar (for *Byssochlamys fulva)* or Potato Dextrose agar (for *Aspergillus versicolor).* All plates were incubated for 3-5 days at 25-30°C. Following incubation, the colonies were counted. Controls included those for numbers count, sterility, neutralizer effectiveness, and confirmation of the challenge microorganisms.

Note: Protocol deviations/amendments reported in the study were observed.

### 2. MRID 483605-02 "Germicidal and Detergent Sanitizing Action of Disinfectants," Test Organisms: *Lactobacillus buchneri* (ATCC 4005), *Pediococcus damnosus* (ATCC 29358), and *Saccharomyces cerevisiae* (ATCC 47058), for PERACLEAN 5, by Angela L. Hollingsworth. Study conducted at MICROBIOTEST. Study completion date – July 13, 2004. Laboratory Project Identification Number 529-103.

This study was conducted against *Lactobacillus buchneri* (ATCC 4005), *Pediococcus damnosus* (ATCC 29358), and *Saccharomyces cerevisiae* (ATCC 47058). Two lots (Lot Nos. 1110003 and 2101003) of the product, PERACLEAN 5, were tested. The laboratory report referenced the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. In studies against *Lactobacillus buchneri* and *Pediococcus damnosus*, use solutions were prepared by adding 1.10 or 1.11 mL of the product and 99 mL of 400±2.9% ppm AOAC synthetic hard water (a 1:90 to 1:91 dilution; 643 ppm peroxyacetic acid). In studies against *Saccharomyces cerevisiae*, use solutions were prepared by adding 4.72 or 4.80 mL of the product and 99 mL of 400±2.9% ppm

AOAC synthetic hard water (a ~1:22 dilution; 2,632 ppm peroxyacetic acid). Use solutions were not tested in the presence of a 5% organic soil load. Two replicates per product lot were tested. A 99-mL aliquot of each use solution was transferred to a 250 mL Erlenmeyer flask and placed in a water bath at 42°C. One-mL inoculum suspension was added to each flask. One-mL aliquots of the inoculum-product mixture were transferred to tubes containing D/E Neutralizing Broth exactly 7 seconds after the addition of the inoculum suspension. Neutralizer tubes were mixed thoroughly and serially diluted in phosphate buffer dilution water. Selected aliquots were plated in Reinforced Clostridial Medium Agar (for *Lactobacillus buchneri* and *Pediococcus damnosus*) or YM agar (*Saccharomyces cerevisiae*). All plates were incubated for 4 days at 37±2°C (25-26°C for *Pediococcus damnosus* and *Saccharomyces cerevisiae*). Following incubation, the colonies were counted. Controls included those for numbers count, sterility, neutralizer effectiveness, and confirmation of the challenge microorganisms.

Note: Protocol deviations/amendments reported in the study were observed.

## V. RESULTS

| MRID Number | Organism | Lot No. | Average No. Surviving | Microbes Initially Present | Percent Reduction |
|---|---|---|---|---|---|
| | | | (CFU/carrier) | | |
| **7-Second Exposure Time** | | | | | |
| 483605-01 | *Aspergillus versicolor* | 1110003 | $2.5 \times 10^1$† | $9.6 \times 10^7$ | >99.999 |
| | | 2101003 | $2.0 \times 10^1$ | $9.6 \times 10^7$ | >99.999 |
| | *Byssochlamys fulva* | 1110003 | $3.6 \times 10^2$† | $8.1 \times 10^7$ | >99.999 |
| | | 2101003 | $3.4 \times 10^2$† | $8.1 \times 10^7$ | >99.999 |
| 483605-02 | *Lactobacillus buchneri* | 1110003 | $<5.0 \times 10^0$ | $9.4 \times 10^7$ | >99.999 |
| | | 2101003 | $<5.0 \times 10^0$ | $9.4 \times 10^7$ | >99.999 |
| | *Pediococcus damnosus* | 1110003 | $<5.0 \times 10^0$ | $8.0 \times 10^7$ | >99.999 |
| | | 2101003 | $<5.0 \times 10^0$ | $8.0 \times 10^7$ | >99.999 |
| | *Saccharomyces cerevisiae* | 1110003 | $<5.0 \times 10^0$ | $8.2 \times 10^7$ | >99.999 |
| | | 2101003 | $<5.0 \times 10^0$ | $8.2 \times 10^7$ | >99.999 |

†Maximum of two replicates reported.

## VI. CONCLUSIONS

1. The submitted efficacy data **support** the use of a ~1:22 dilution of the product, PERACLEAN 5, as a sanitizing rinse against the following microorganisms on pre-cleaned, hard, non-porous, food contact surfaces in the presence of 400 ppm hard water for a 7-second contact time at 40-42°C:

| | |
|---|---|
| *Aspergillus versicolor* | MRID 483605-01 |
| *Byssochlamys fulva* | MRID 483605-01 |
| *Saccharomyces cerevisiae* | MRID 483605-02 |

Fungi/yeast reductions of at least 99.999 percent over the parallel control were observed within 30 seconds (actual time: 7 seconds). Neutralizer effectiveness testing showed positive growth of the microorganisms. Sterility controls did not show growth.

2. The submitted efficacy data **support** the use of a 1:90 to 1:91 dilution of the product, PERACLEAN 5, as a sanitizing rinse against the following microorganisms on pre-cleaned, hard, non-porous, food contact surfaces in the presence of 400 ppm hard water for a 7-second contact time at 42°C:

| | |
|---|---|
| *Lactobacillus buchneri* | MRID 483605-02 |
| *Pediococcus damnosus* | MRID 483605-02 |

Bacteria reductions of at least 99.999 percent over the parallel control were observed within 30 seconds (actual time: 7 seconds). Neutralizer effectiveness testing showed positive growth of the microorganisms. Sterility controls did not show growth.

## VII. LABEL

1. The proposed label claims that a 1:65 dilution (2,632 ppm peroxyacetic acid) of the product, PERACLEAN ® 15, is an effective antimicrobial rinse against the following microorganisms on pre-cleaned, hard, non-porous, food contact surfaces in the presence of 400 ppm hard water for a 7-second contact time at 40-42°C:

*Aspergillus versicolor*
*Byssochlamys fulva*
*Lactobacillus buchneri*
*Pediococcus damnosus*
*Saccharomyces cerevisiae*

**These claims are acceptable as they are supported by the submitted data**.

2. The applicant must make the following changes to the proposed label, as appropriate:

- Under the "Precautionary Statements" section of the proposed label, change "before eating, drinking, using tobacco, or using the toilet" to read "before eating, drinking, **chewing gum**, using tobacco, or using the toilet."

- Add ATCC numbers for all listed microorganisms.

**PERACLEAN ® 15**

**(PEROXYACETIC ACID SOLUTION)**

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

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

**FIRST AID**

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

If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.

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 STATEMENTSHAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. 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 invertebrates. 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.

EPA Letter Dated:

Reg. No. 54289-4

DIRECTIONS FOR USE

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

SANITIZATION

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

FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.

PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO3. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

SANITIZING FOOD CONTACT SURFACES

Effective against Staphylococcus aureus and Escherichia coli.

Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% 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 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 governing sanitary code. Drain thoroughly. Do not rinse.

SANITIZING, EATING, DRINKING, AND FOOD PREP UTENSILS

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

SANITIZING TABLEWARE

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

To insure that the PERACLEAN® 15 sanitizer concentration does not fall below 48 ppm peroxyacetic acid, periodically test the rinse solution with a suitable test kit and adjust the dispensing rate accordingly. Consult your technical service representative for assistance and further information on 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 acid.

BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

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

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

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 prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate 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 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 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 reduce residuals.

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

ACCEPTED
with COMMENTS
In EPA Letter Dated:
JUN

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended for the pesticide,
registered under EPA Reg. No. 54289-4

Isolate incompatible equipment from piping system. Thi 'udes activated carbon filters and ion exchange e. ıent. Turn off power to ultraviolet light units. Estimate total volume of water contained in the system (tanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves 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 indicates there is less then 3 ppm peroxygen.

CONTINUOUS/INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES (NON-FOOD CONTACT SURFACES)PERACLEAN® 15, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the regrowth/ accumulation of biological matter. The 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 PERACLEAN® 15 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition, do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

HARD SURFACE DISINFECTION

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, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites; housekeeping services; physical therapy departments; 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 buildings, recreational facilities, 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 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 or semi-critical medical devices prior to sterilization or high level disinfection.**

COMBINATION DISINFECTION AND CLEANING

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia coli O157:H7 at 0.08% (0.5 fl. oz./5 gal.) in hard water (400 ppm as $CaCO_3$) and 5% fetal bovine serum on hard nonporous surfaces. For heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.

PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, PERACLEAN® 15 is specifically designed to disinfect, deodorize and clean hard, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 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 areas which are prone to odors caused by microorganisms.

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

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

DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

POULTRY HATCHERY DISINFECTION

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HUTCHES, ETC.)

Do not use in milking stalls, milking parlors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried.

JUN 15 2011
Federal Insecticide,
and Rodenticide Act as
pesticide,
Reg. No.
54289-4

Thoroughly scrub all treated feed racks, mangers, trough tomatic feeders, fountains, and waterers with soa Jetergent, and rinse with potable water before reuse.

FOR SANITIZING OF HATCHING EGGS

Prepare a solution of PERACLEAN® 15 by diluting 0.33 fluid ounce PERACLEAN® 15 with 5 gallons of water. As eggs are gathered or prior to setting, apply solution as a coarse spray so as to lightly wet all shell surfaces.

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 compatibility before proceeding with its use.

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 product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with or after detergent wash.

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 peroxide.

2.Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a 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 diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.

2.Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR173.315 (a) 5

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

4.Do not reuse solution after treatment.

ACCEPTED
with COMMENTS
EPA Letter Dated:
JUN 15
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 54289-4

BIFOULING CONTROL IN PILP AND PAPERMILL SYSTEMS

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact.

PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water 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 influent water streams.

!Contamination with other chemicals could result in product decomposition.

•Add PERACLEAN® 15 at a point in the system where uniform mixing and even distribution will occur.

•Use 0.1 to 0.5 lb. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 per 1000 gallons of 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 as required to maintain control.

INFLUENT WATER SYSTEMS:

PERACLEAN® 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 PERACLEAN® 15).

MILL PROCESS WATERS:

•Continuous Feed – PERACLEAN® 15 should be fed continuously at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.

•Intermittent Feed – PERACLEAN® 15 should be fed intermittently (6 to 8 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 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 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 CONTACT DISPERSED PIGMENTS

PERACLEAN® 15 can be used in the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and diatomaceous earth used in paint and paper production.

Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of pigment slurry. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

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

•Severely fouled systems should be cleaned before addi e PERACLEAN® 15 solution. PERACLEAN® 15 ld be added in the system directly and not mixed with any other chemicals or additives.

CONTROL OF BACTERIA AND FUNGI IN COATING PRESERVATION

Not for use in manufacture of material intended for food contact.

PERACLEAN® 15 can be used as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper coatings.

Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of preservative. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

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), Byssochlamys fulva (ATCC 10099), 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 potable water. This provides 2,632 ppm peroxyacetic acid.

2.Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period.(ATCC 47058)

3.Allow containers to drain thoroughly, and then rinse with sterile or potable water.

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Bactericidal, Virucidal∆, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational 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 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled clouded or diluted.

This product is not for use on medical device surfaces.

(OR)

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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.

Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning of body fluids,

blood and decontamination procedures. Cleaning Proce Blood and other body fluids must be thoroughly .ned from surfaces and objects before application. Contact Time: HIV-1, HBV, and HCV are inactivated after 1 minute of contact.

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

**STORAGE AND DISPOSAL**

Storage and Disposal

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

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

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

**CONTAINER DISPOSAL:** Nonrefillable 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:**

Triple 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 ¼ 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 times.

**Containers greater than 5 gallons:**

Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

ACCEPTED
with COMMENTS
EPA Letter Dated:
JUN 15 2011

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 54289-4

OMRI® Listed

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

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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 viruses∆ |
| 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 | |

ACCEPTED
WITH COMMENTS
EPA Letter Dated:
JUN 15 2011
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide, registered under EPA Reg. No. 54289-4

# PERACLEAN ® 15 ⓥ

## (PEROXYACETIC ACID SOLUTION)

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

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

## FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.
If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.
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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
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, drinking, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.
PHYSICAL AND CHEMICAL HAZARDS
STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. 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 invertebrates. 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.

ACCEPTED
with COMMENTS
EPA Letter Dated:
JUN 15 2011

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 54289-4

EVONIK INDUSTRIES

Manufactured by:
Evonik Degussa Corporation
379 Interpace Parkway, P.O. Box 677
Parsippany, New Jersey 07054-0677

OMRI Listed

### Directions for use

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

### Sanitization

NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be used for subsequent sanitizing but may be reused for other purposes such as cleaning.
FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.
PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO3. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

### Sanitizing Food Contact Surfaces

Effective against Staphylococcus aureus and Escherichia coli.
Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% 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 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 governing sanitary code. Drain thoroughly. Do not rinse.

### Sanitizing, Eating, Drinking, And Food Prep Utensils

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

### Sanitizing Tableware

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

### Batch Sanitization (Non-Food Contact Surfaces) of Ultra Filtration and Reverse Osmosis (RO) Membranes

PERACLEAN® 15 can be used for the sanitization of ultra filtration, medical and non-medical institutional/industrial reverse osmosis (RO) membranes and their associated distribution systems.
This product has been shown to be an effective disinfectant when tested by AOAC and EPA methods. This product may not eliminate all vegetative microorganisms in reverse osmosis membranes and their associated piping systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. Check with equipment manufacturer for membrane compatibility with PERACLEAN® 15.
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 prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate 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 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 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 reduce residuals.

### Batch Sanitization (Non-Food Contact Surfaces) of Piping Systems Associated with RO Membranes

Isolate incompatible equipment from piping system. This includes activated carbon filters and ion exchange equipment. Turn off power to ultraviolet light units. Estimate total volume of water contained in the system (tanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves 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 indicates there is less then 3 ppm peroxygen.

### Continuous/Intermittent Addition to minimize the Accumulation of Biological Matter Between Intermittent Sanitizing Episodes in Piping Systems Associated with RO Membranes (Non-Food Contact Surfaces)

PERACLEAN® 15, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the regrowth/ accumulation of biological matter. The 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 PERACLEAN® 15 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition, do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

### Hard Surface Disinfection

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, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.
Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites; housekeeping services; physical therapy departments; 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 buildings, recreational facilities, 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 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 or semi-critical medical devices prior to sterilization or high level disinfection.**

### Combination Disinfection and Cleaning

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia 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 heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.
PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, PERACLEAN® 15 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 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 areas which are prone to odors caused by microorganisms.
All treated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse.
For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

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DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

### Poultry Hatchery Disinfection

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

### Disinfection And Deodorizing of Animal Housing Facilities (Barns, Kennels, Hutches, Etc.)

Do not use in milking stalls, milking parlors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

### For Sanitizing of Hatching Eggs

Prepare a solution of PERACLEAN® 15 by diluting 0.33 fluid ounce PERACLEAN® 15 with 5 gallons of water. As eggs are gathered or prior to setting, apply solution as a coarse spray so as to lightly wet all shell surfaces.
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 compatibility before proceeding with its use.

### 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 product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with or after detergent wash.
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 peroxide.
2.Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a 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 microorganisms that can cause spoilage

1 Prepare treating solution by diluting 1 5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide
2 Apply the diluted sanitizer solution as a spray or dip Allow a contact time of at least 45 seconds No rinse following application is required This use complies with the requirements of 21 CFR173.315 (a) 5
3 The treated produce can be drain dried without a potable water rinse
4 Do not reuse solution after treatment

### Biofouling Control in Pulp and Papermill Systems

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact.
PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water 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 influent water streams.
IContamination with other chemicals could result in product decomposition.
•Add PERACLEAN® 15 at a point in the system where uniform mixing and even distribution will occur.
•Use 0.1 to 0.5 lb. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 per 1000 gallons of 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 as required to maintain control.

### Influent Water Systems:

PERACLEAN® 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 PERACLEAN® 15).

### Mill Process Waters:

•Continuous Feed – PERACLEAN® 15 should be fed continuously at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.
•Intermittent Feed – PERACLEAN® 15 should be fed intermittently (6 to 8 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 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 do[illegible]ging from 98 to 2048 ppm peroxyacetic acid (648 to 13,638 ppm PE[illegible]CAN® 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 CONTACT DISPERSED PIGMENTS

PERACLEAN® 15 can be used in the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and diatomaceous earth used in paint and paper production.
Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of pigment slurry. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

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

•Severely fouled 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 PRESERVATION

Not for use in manufacture of material intended for food contact.
PERACLEAN® 15 can be used as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper coatings.
Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to e[illegible]00 lbs. of preservative. This will provide 15 to 75 ppm peroxyacetic [illegible] 500 ppm PERACLEAN® 15).

### 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, Hyssochlamys fulva, Pediococcus damnosus, Lactobacillus buchneri, and Saccharomyces cerevisiae
1 Prepare PERACLEAN® 15 solution by adding 9 85 fl oz to 5 gallons potable water. This provides 2 532 ppm peroxyacetic acid
2 Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period
3 Allow containers to drain thoroughly, and then rinse with sterile or potable water.

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**WASHINGTON, DC 20460**

OFFICE OF CHEMICAL
SAFETY AND POLLUTION
PREVENTION

May 23, 2011

**MEMORANDUM**

**Subject:** Efficacy Review for PERACLEAN ® 15; EPA Reg. No. 54289-4; DP Barcode: D387212

**From:** Ibrahim Laniyan, Ph.D.
Microbiologist
Product Science Branch
Antimicrobials Division (7510P)

**Thru:** Tajah Blackburn, Ph.D.
Team Leader
Product Science Branch
Antimicrobials Division (7510P)

**To:** Marshall Swindell / Martha Terry
Regulatory Management Branch I
Antimicrobials Division (7510P)

**Applicant:** Evonik Degussa Corporation
379 Interpace Parkway
Parsippany, NJ 07054-0677

**Formulation from the Label:**

| Active Ingredient | % by wt. |
|---|---|
| Hydrogen Peroxide | 22.0 % |
| Peroxyacetic Acid | 15.0 % |
| Other ingredients | 63.0 % |
| Total | 100.0 % |

## I. BACKGROUND

The product, PERACLEAN ® 15 (EPA Reg. No. 54289-4), is an EPA-approved disinfectant (bactericide, fungicide) and sanitizer for use on hard, non-porous surfaces in commercial, institutional, industrial, food preparation, animal care, and hospital or medical environments. The applicant requested to amend the registration of this product to add new claims for effectiveness as an antimicrobial rinse in reducing the number of non-pathogenic beverage spoiling organisms, including *Aspergillus versicolor*, *Byssochlamys fulva*, *Lactobacillus buchneri*, *Pediococcus damnosus*, and *Saccharomyces cerevisiae*. The label states that the product is effective as a sanitizer in water of up to 400 ppm hardness as $CaCO_3$. Studies were conducted at MICROBIOTEST, located at 105B Carpenter Drive in Sterling, VA 20164.

This data package contained a letter from the applicant to EPA (dated January 5, 2011), two studies (MRID 483605-01 and 483605-02), Statements of No Data Confidentiality Claims for both studies, and the proposed label.

Note: The laboratory reports describe studies conducted for the product, PERACLEAN 5 (EPA Reg. No. 54289-3). The applicant's letter to EPA (dated January 5, 2011) states that the tested product, PERACLEAN 5, is almost identical – when prepared according to label instructions – to the product, PERACLEAN ® 15, which is the subject of this efficacy report.

## II. USE DIRECTIONS

The product is designed for sanitizing hard, non-porous surfaces, including: equipment, pipelines, tanks, vats, fillers, evaporators, and pasteurizers. The proposed label indicates that the product may be used on hard, non-porous surfaces, including: aluminum, baked enamel, chrome, glass, glazed ceramic, glazed porcelain, glazed tile, laminated surfaces, linoleum, painted surfaces, plastic (e.g., polyethylene, polypropylene), sealed stone, stainless steel, and vinyl. Directions on the proposed label provide the following information regarding preparation and use of the product as an antimicrobial rinse in reducing the number of non-pathogenic beverage spoilage organisms: Pre-clean containers. Prepare a use solution by adding 9.85 ounces of the product and 5 gallons of water (a 1:65 dilution). Apply use solution (antimicrobial rinse) at a temperature of 40-60°C and allow a minimum 7-second contact time. Allow containers to dry thoroughly. Rinse with sterile or potable water.

## III. AGENCY STANDARDS FOR PROPOSED CLAIMS

**Sanitizing Rinses (For Previously Cleaned, Food Contact Surfaces; Additional Bacteria):** There are cases where an applicant requests to make claims of effectiveness against additional bacteria for a product that is already registered as a sanitizing rinse for previously cleaned, food contact surfaces. EPA staff indicated that the DIS/TSS-5 standards are silent on this matter and that confirmatory test standards would apply. EPA staff indicated that, for sanitizing rinses for previously cleaned, food contact surfaces, 2 product samples, representing 2 different product lots, must be tested against each additional microorganism. Results must show a bacterial reduction of at least 99.999% in the number of microorganisms within 30 seconds. The results must be reported according to the actual count and the percentage reduction over the control. Furthermore, according to information in the above AOAC test method itself, counts on number controls for the product should fall between 75 and 125 x $10^6$/mL for percent reductions to be

considered valid. Label directions for use, however, must state that a contact time of at least 1 minute is required for sanitization.

**Supplemental Claims:** On a product label, the hard water tolerance level may differ with the level of antimicrobial activity (e.g., sanitizer vs. disinfectant) claimed. To establish efficacy in hard water, all microorganisms (i.e., bacteria, fungi, viruses) claimed to be controlled must be tested by the appropriate Recommended Method at the same hard water tolerance level.

## IV. BRIEF DESCRIPTION OF THE DATA

### 1. MRID 483605-01 "Germicidal and Detergent Sanitizing Action of Disinfectants," Test Organisms: *Aspergillus versicolor* (ATCC 9577) and *Byssochlamys fulva* (ATCC 10099), for PERACLEAN 5, by Angela L. Hollingsworth. Study conducted at MICROBIOTEST. Study completion date – July 13, 2004. Laboratory Project Identification Number 529-102.

This study was conducted against *Aspergillus versicolor* (ATCC 9577) and *Byssochlamys fulva* (ATCC 10099). Two lots (Lot Nos. 1110003 and 2101003) of the product, PERACLEAN 5, were tested. The laboratory report referenced the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. Use solutions were prepared by adding 4.72 or 4.80 mL of the product and 99 mL of 400±2.9% ppm AOAC synthetic hard water (a ~1:22 dilution; 2,632 ppm peroxyacetic acid). Use solutions were not tested in the presence of a 5% organic soil load. Two replicates per product lot were tested. A 99-mL aliquot of each use solution was transferred to a 250 mL Erlenmeyer flask and placed in a water bath at 40°C. One-mL fungi suspension was added to each flask. One-mL aliquots of the fungi-product mixture were transferred to tubes containing D/E Neutralizing Broth exactly 7 seconds after the addition of the fungi suspension. Neutralizer tubes were mixed thoroughly and serially diluted in phosphate buffer dilution water. Selected aliquots were plated in Czapek agar (for *Byssochlamys fulva)* or Potato Dextrose agar (for *Aspergillus versicolor)*. All plates were incubated for 3-5 days at 25-30°C. Following incubation, the colonies were counted. Controls included those for numbers count, sterility, neutralizer effectiveness, and confirmation of the challenge microorganisms.

Note: Protocol deviations/amendments reported in the study were observed.

### 2. MRID 483605-02 "Germicidal and Detergent Sanitizing Action of Disinfectants," Test Organisms: *Lactobacillus buchneri* (ATCC 4005), *Pediococcus damnosus* (ATCC 29358), and *Saccharomyces cerevisiae* (ATCC 47058), for PERACLEAN 5, by Angela L. Hollingsworth. Study conducted at MICROBIOTEST. Study completion date – July 13, 2004. Laboratory Project Identification Number 529-103.

This study was conducted against *Lactobacillus buchneri* (ATCC 4005), *Pediococcus damnosus* (ATCC 29358), and *Saccharomyces cerevisiae* (ATCC 47058). Two lots (Lot Nos. 1110003 and 2101003) of the product, PERACLEAN 5, were tested. The laboratory report referenced the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. In studies against *Lactobacillus buchneri* and *Pediococcus damnosus*, use solutions were prepared by adding 1.10 or 1.11 mL of the product and 99 mL of 400±2.9% ppm AOAC synthetic hard water (a 1:90 to 1:91 dilution; 643 ppm peroxyacetic acid). In studies against *Saccharomyces cerevisiae*, use solutions were prepared by adding 4.72 or 4.80 mL of the product and 99 mL of 400±2.9% ppm

AOAC synthetic hard water (a ~1:22 dilution; 2,632 ppm peroxyacetic acid). Use solutions were not tested in the presence of a 5% organic soil load. Two replicates per product lot were tested. A 99-mL aliquot of each use solution was transferred to a 250 mL Erlenmeyer flask and placed in a water bath at 42°C. One-mL inoculum suspension was added to each flask. One-mL aliquots of the inoculum-product mixture were transferred to tubes containing D/E Neutralizing Broth exactly 7 seconds after the addition of the inoculum suspension. Neutralizer tubes were mixed thoroughly and serially diluted in phosphate buffer dilution water. Selected aliquots were plated in Reinforced Clostridial Medium Agar (for *Lactobacillus buchneri* and *Pediococcus damnosus*) or YM agar (*Saccharomyces cerevisiae*). All plates were incubated for 4 days at 37±2°C (25-26°C for *Pediococcus damnosus* and *Saccharomyces cerevisiae*). Following incubation, the colonies were counted. Controls included those for numbers count, sterility, neutralizer effectiveness, and confirmation of the challenge microorganisms.

Note: Protocol deviations/amendments reported in the study were observed.

## V. RESULTS

| MRID Number | Organism | Lot No. | Average No. Surviving (CFU/carrier) | Microbes Initially Present (CFU/carrier) | Percent Reduction |
|---|---|---|---|---|---|
| **7-Second Exposure Time** | | | | | |
| 483605-01 | *Aspergillus versicolor* | 1110003 | $2.5 \times 10^1$† | $9.6 \times 10^7$ | >99.999 |
| | | 2101003 | $2.0 \times 10^1$ | $9.6 \times 10^7$ | >99.999 |
| | *Byssochlamys fulva* | 1110003 | $3.6 \times 10^2$† | $8.1 \times 10^7$ | >99.999 |
| | | 2101003 | $3.4 \times 10^2$† | $8.1 \times 10^7$ | >99.999 |
| 483605-02 | *Lactobacillus buchneri* | 1110003 | $<5.0 \times 10^0$ | $9.4 \times 10^7$ | >99.999 |
| | | 2101003 | $<5.0 \times 10^0$ | $9.4 \times 10^7$ | >99.999 |
| | *Pediococcus damnosus* | 1110003 | $<5.0 \times 10^0$ | $8.0 \times 10^7$ | >99.999 |
| | | 2101003 | $<5.0 \times 10^0$ | $8.0 \times 10^7$ | >99.999 |
| | *Saccharomyces cerevisiae* | 1110003 | $<5.0 \times 10^0$ | $8.2 \times 10^7$ | >99.999 |
| | | 2101003 | $<5.0 \times 10^0$ | $8.2 \times 10^7$ | >99.999 |

†Maximum of two replicates reported.

## VI. CONCLUSIONS

1. The submitted efficacy data **support** the use of a ~1:22 dilution of the product, PERACLEAN 5, as a sanitizing rinse against the following microorganisms on pre-cleaned, hard, non-porous, food contact surfaces in the presence of 400 ppm hard water for a 7-second contact time at 40-42°C:

| | |
|---|---|
| *Aspergillus versicolor* | MRID 483605-01 |
| *Byssochlamys fulva* | MRID 483605-01 |
| *Saccharomyces cerevisiae* | MRID 483605-02 |

Fungi/yeast reductions of at least 99.999 percent over the parallel control were observed within 30 seconds (actual time: 7 seconds). Neutralizer effectiveness testing showed positive growth of the microorganisms. Sterility controls did not show growth.

2. The submitted efficacy data **support** the use of a 1:90 to 1:91 dilution of the product, PERACLEAN 5, as a sanitizing rinse against the following microorganisms on pre-cleaned, hard, non-porous, food contact surfaces in the presence of 400 ppm hard water for a 7-second contact time at 42°C:

| | |
|---|---|
| *Lactobacillus buchneri* | MRID 483605-02 |
| *Pediococcus damnosus* | MRID 483605-02 |

Bacteria reductions of at least 99.999 percent over the parallel control were observed within 30 seconds (actual time: 7 seconds). Neutralizer effectiveness testing showed positive growth of the microorganisms. Sterility controls did not show growth.

## VII. LABEL

1. The proposed label claims that a 1:65 dilution (2,632 ppm peroxyacetic acid) of the product, PERACLEAN ® 15, is an effective antimicrobial rinse against the following microorganisms on pre-cleaned, hard, non-porous, food contact surfaces in the presence of 400 ppm hard water for a 7-second contact time at 40-42°C:

*Aspergillus versicolor*
*Byssochlamys fulva*
*Lactobacillus buchneri*
*Pediococcus damnosus*
*Saccharomyces cerevisiae*

**These claims are acceptable as they are supported by the submitted data**.

2. The applicant must make the following changes to the proposed label, as appropriate:

- Under the "Precautionary Statements" section of the proposed label, change "before eating, drinking, using tobacco, or using the toilet" to read "before eating, drinking, **chewing gum**, using tobacco, or using the toilet."

- Add ATCC numbers for all listed microorganisms.

Form Approved OMB Nos. 2070-0060; 2070-0057; 2070-0107; 2070-0122; 2070-0164

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**1200 Pennsylvania Avenue, N.W.**
**WASHINGTON, D.C. 20460**

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## Certification with Respect to Citation of Data

| | |
|---|---|
| Applicant's/Registrant's Name, Address, and Telephone Number<br>Evonik Degussa 379 Interpace Parkway Parsippany NJ 07054/ 443-609-4654 | EPA Registration Number/File Symbol<br>54289-4 |
| Active Ingredient(s) and/or representative test compound(s)<br>Hydrogen Peroxide and Peracetic Acid | Date<br>2-07-2011 |
| General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158)<br>Antimicrobial | Product Name<br>PERACLEAN 15 |

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT** (Check one method only)

| | |
|---|---|
| ☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). | ☑ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used). |

**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☑ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

**SECTION III: CERTIFICATION**

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses .

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

**I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.**

| Signature | Date | Typed or Printed Name and Title |
|---|---|---|
| [signature] | 2/7/11 | Tiana Rosamilia Manager |

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Form Approved OMB No. 2070-0060

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Generic **DATA MATRIX**

| | | |
|---|---|---|
| Date 2/7/2011 | EPA Reg No./File Symbol 54289-4 | Page 1 of 4 |
| Applicant's/Registrant's Name & Address<br>Evonik Degussa 379 Interpace Parkway Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 830.1550/61-1 | Product Identity and Composition | | | | Waived 1 |
| 830.1600/61-2 | Description of the MAterials Used to Produce the Product | | | | Waived 1 |
| 830.1650/61-2 | Description of the Manufacturing Process | | | | Waived 1 |
| 830.1670/61-3 | Discussion of Formation of Impurities | | | | Waived 1 |
| 830.1700/62-1 | Preliminary Analysis | | | | Waived 1 |
| 830.1750/62-2 | Certified Limits | | | | Waived 1 |
| 830.1800/62-3 | Enforcement Analytical Methods | | | | Waived 1 |
| 830.6302/63-2 | Color | | | | Waived 1 |
| 830.6303/63-3 | Physical State | | | | Waived 1 |
| 830.7200/63-5 | Melting Point | | | | Waived 1 |
| 830.7220/63-6 | Boiling Point | | | | Waived 1 |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | Waived 1 |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | Waived 1 |
| 830.7950/63-9 | Vapor Pressure | | | | Waived 1 |
| 830.7370/63-10 | Dissociation Constant | | | | Waived 1 |

| | | |
|---|---|---|
| Signature Tiana | Name and Title<br>Tiana Rosamilia Registrations Manager | Date<br>02/07/2011 |

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## DATA MATRIX

| | | |
|---|---|---|
| Date 2/7/2011 | EPA Reg No./File Symbol 54289-4 | Page 2 of 4 |
| Applicant's/Registrant's Name & Address<br>Evonik Degussa 379 Interpace Parkway Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 71-1 | Acute Avian Oral | | | | Waived 1 |
| 71-2(a) | Acute Avian Diet- Quail | | | | Waived 1 |
| 71-2(a) | Acute Avian Diet- Duck | | | | Waived 1 |
| 72-1(a) | Fish Toxicity- Bluegill | | | | Waived 1 |
| 72-1(c) | Fish Toxicity- Rainbow Trout | | | | Waived 1 |
| 72-2(a) | Invertebrate Toxicity | | | | Waived 1 |
| 870.1100/81-1 | Acute Oral Toxicity- Rat | | | | Waived 1 |
| 870.1200/81-2 | Acute Dermal Toxicity- Rabbit | | | | Waived 1 |
| 870.1300/81-3 | Acute Inhalation Toxicity- Rat | | | | Waived 1 |
| 870.2400/81-4 | Primary Eye Irritation- Rabbit | | | | Waived 1 |
| 870.2500/81-5 | Primary Dermal Irritation | | | | Waived 1 |
| 870.2600/81-6 | Dermal Sensitization | | | | Waived 1 |
| 82-3 | 90-Day Dermal Rodent | | | | Waived 1 |
| 82-4 | 90-Day Inhalation - Rat | | | | Waived 1 |
| 83-3B | Developmental Toxicity - Rabbit | | | | Waived 1 |

| | | |
|---|---|---|
| Signature | Name and Title<br>Tiana Rosamilia Registrations Manager | Date<br>02/07/2011 |

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## DATA MATRIX

| Date 2/7/2011 | EPA Reg No./File Symbol 54289-4 | Page 3 of 4 |
|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Degussa Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 870.1100/81-1 | Acute Oral Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.1200/81-2 | Acute Dermal Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.1300/81-3 | Acute Inhalation Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2400/81-4 | Primary Eye Irritation | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2500/81-5 | Primary Dermal Irritation | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2600/81-6 | Skin Sensitization | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
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| Signature | Name and Title | Date |
|---|---|---|
| | Tiana Rosamilia Registrations Manager | 02/07/2011 |

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| | | |
|---|---|---|
| Date 2/7/2011 | EPA Reg No./File Symbol 54289-4 | Page 4 of 4 |
| Applicant's/Registrant's Name & Address<br>Evonik Degussa 379 Interpace Parkway Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 83-4 | 2-generation Reproduction - Rat | | | | Waived 1 |
| 84-2A | Gene Mutation - Ames | | | | Waived 1 |
| 84-2B | Structural Chromosomal Aberration | | | | Waived 1 |
| 84-4 | Other Genotoxic Effects | | | | Waived 1 |
| Section 158.390 Occupational/ | | | | | Waived 1 |
| residential Exposure | | | | | |
| Section 158.290 Environmental fate | | | | | Waived 1 |
| | | | | | |
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[1] These generic guidelines were waived in the Peroxy Compounds RED for both peroxyacetic acid and hydrogen peroxide

| | | |
|---|---|---|
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|---|---|---|
| Date 2/7/2011 | EPA Reg No./File Symbol 54289-4 | Page 1 of 8 |
| Applicant's/Registrant's Name & Address<br>Evonik Degussa 379 Interpace Parkway Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient Hydrogen Peroxide and Peroxyacetic Acid

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 830.1550/61-1 | Product Identity and Composition | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1600/61-2 | Description of the Materials Used to Produce the Product | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1650/61-2 | Description of the Manufacturing Process | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1670/61-3 | Discussion of Formation of Impurities | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1700/62-1 | Preliminary Analysis | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1750/62-2 | Certified Limits | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.1800/62-3 | Enforcement Analytical Methods | 44506501 | Evonik (Co. No. 54289) | OWN | |
| 830.6302/63-2 | Color | | | | footnote 1 |
| 830.6303/63-3 | Physical State | | | | footnote 1 |
| 830.7200/63-5 | Melting Point | | | | footnote 1 |
| 830.7220/63-6 | Boiling Point | | | | NR |
| 830.7300/63-7 | Density/Relative Density/Bulk Density | | | | NR |
| 830.7840/63-8 | Solubility (column elution/shake flask) | | | | footnote 1 |
| 830.7950/63-9 | Vapor Pressure | | | | NR |
| 830.7370/63-10 | Dissociation Constant | | | | NR |

| | | |
|---|---|---|
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|---|---|---|
| Date 2/7/2011 | EPA Reg No./File Symbol 54289-4 | Page 2 of 8 |
| Applicant's/Registrant's Name & Address<br>Evonik Degussa 379 Interpace Parkway Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| | | | | | |
| 830.7550/7560/7570/63-11 | Partition Coefficient | | | | NR |
| 830.7000/63-12 | pH | | | | Footnote 1 |
| 830.6313/63-13 | Stability | | | | NR |
| 830.6314/63-14 | Oxidation/Reduction Chemical Compatibility | | | | NR |
| 830.6315/63-15 | Flammability | | | | Footnote 1 |
| 830.6316/63-16 | Explodability | | | | NR |
| 830.6317/63-17 | Storage Stability | | Evonik (54289) | | Footnote 2 |
| 830.7100/63-18 | Viscosity | | | | NR |
| 830.6319/63-19 | Miscibility | | | | NR |
| 830.6320/63-20 | Corrosion Characteristics | | | | NA |
| 830.6321/63-21 | Dielectric Breakdown Voltage | | | | NR |
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|---|---|---|
| Signature | Name and Title<br>Tiana Rosamilio Registrations Manager | Date<br>02/07/2011 |

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| Date 2/7/2011 | EPA Reg No./File Symbol 54289-4 | Page 3 of 8 |
|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Degussa Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 870.1100/81-1 | Acute Oral Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.1200/81-2 | Acute Dermal Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.1300/81-3 | Acute Inhalation Toxicity | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2400/81-4 | Primary Eye Irritation | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2500/81-5 | Primary Dermal Irritation | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
| 870.2600/81-6 | Skin Sensitization | CITE ALL | American Chemistry Council (C0. No.63394) | PAY | |
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| Signature | Name and Title | Date |
|---|---|---|
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|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Degussa 379 Interpace Parkway Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (c),(d),(e) | AOAC Use Dilution using Serratia Marcescens | 47630801 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution using Salm. Ent. aerovar Typhimiurium | 47630802 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental using | 47630803 | Evonik Degussa Corporation (54289) | OWN | |
| | Listeria Monocytogens | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Klebsiella | 47630804 | Evonik Degussa Corporation (54289) | OWN | |
| | pneumoniae | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental using staphylococcus | 47630805 | Evonik Degussa Corporation (54289) | OWN | |
| | aureus with reduced susceptibility to Vancomycin | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Community | 47630806 | Evonik Degussa Corporation (54289) | OWN | |
| | Associated Methicillin-resistant Staphylococcus aureus | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Methicillin-Resistant | 47630807 | Evonik Degussa Corporation (54289) | OWN | |
| | Staphylococcus aureus | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Shigella dysenteriae | 47630808 | Evonik Degussa Corporation (54289) | OWN | |
| | serotype 1 | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Yersinia enterocolitica | 47630809 | Evonik Degussa Corporation (54289) | OWN | |

| Signature | Name and Title | Date |
|---|---|---|
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| Date 2/7/2011 | EPA Reg No./File Symbol 54289-4 | Page 5 of 8 |
|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Degussa 379 Interpace Parkway Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Vibrio Cholerea | 47630810 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Methicillin | 47630811 | Evonik Degussa Corporation (54289) | OWN | |
| | resistant Staphylococcus aureus epidermidis | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Stphylococcus | 47630812 | Evonik Degussa Corporation (54289) | OWN | |
| | pyoenes | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Stphylococcus | 47611913 | Evonik Degussa Corporation (54289) | OWN | |
| | aureus ATCC 6538, Pseudomonas aeruginosa ATCC | | | | |
| | 15442, and Salmonella enterica ATCC 10708 | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using Escherichia | 47630813 | Evonik Degussa Corporation (54289) | OWN | |
| | coli O157:H7 | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Using Vancomycin-Resistant | 47630814 | Evonik Degussa Corporation (54289) | OWN | |
| | Enterococcus faecalis | | | | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Clostridium perfringens | 47630815 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Supplemental Using | 47630816 | Evonik Degussa Corporation (54289) | OWN | |
| | Acinetobacter baumannii | | | | |

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|---|---|---|
| Applicant's/Registrant's Name & Address<br>Evonik Degussa 379 Interpace Parkway Parsippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (g) | Virucidal Efficacy Test Using Herpes Simplex Virus Type 2 | 47611918 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Human Coronavirus Strain | 47611919 | Evonik Degussa Corporation (54289) | OWN | |
| | 229E | | | | |
| 810.2100 (g) | Virucidal Efficacy Test Using Human Immunodeficiency | 47611920 | Evonik Degussa Corporation (54289) | OWN | |
| | Virus Type 1 | | | | |
| 810.2100 (g) | Virucidal Efficacy Test Using Human Influenza A virus | 47611921 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Human Rotavirus | 47611922 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Polio Virus Type 1 | 47611923 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Respiratory Syncytial | 47611924 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Virucidal Efficacy Test Using Rhinovirus Type 37 | 47611925 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c), (d), (e) | AOAC Use Dilution Test Supplemental Using Candida | 47630817 | Evonik Degussa Corporation (54289) | OWN | |
| | Albicans | | | | |
| 810.2100 (g) | Virucidal Efficacy Test Using Avian Influenza Virus | 47611927 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Initial Virucidal Efficacy Test Using Bovine Viral | 47611928 | Evonik Degussa Corporation (54289) | OWN | |
| | Diarrhea virus (Surrogate for Human Hepatitis C virus | | | | |

| Signature | Name and Title | Date |
|---|---|---|
| Tiana | Tiana Rosamilia Registrations Manager | 02/07/2011 |

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| Applicant's/Registrant's Name & Address<br>Evonik Degussa 379 Interpace Parkway Persippany NJ 07054 | Product<br>PERACLEAN 15 | |

Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (g) | Confirmatory Virucidal Efficacy Test Using Bovine Viral | 47611929 | Evonik Degussa Corporation (54289) | OWN | |
| | Diarrhea virus (Surrogate for Human Hepatitis C virus | | | | |
| 810.2100 (g) | Virucidal Efficacy Test Using Vaccinia Virus | 47611930 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (g) | Initial Virucidal Efficacy Test Using Duck Hepatitis | 47611931 | Evonik Degussa Corporation (54289) | OWN | |
| | B Virus (Surrogate for Human Hepatitis B virus) | | | | |
| 810.2100 (g) | Confirmatory Virucidal Efficacy Test Using Duck | 47611932 | Evonik Degussa Corporation (54289) | OWN | |
| | Hepatitis B virus (Surrogate for Human Hepatitis B | | | | |
| 810.2100 (g) | Initial Virucidal Efficacy Test Using Feline calicivirus | 47611933 | Evonik Degussa Corporation (54289) | OWN | |
| | (Surrogate for Human Norovirus) | | | | |
| 810.2100 (g) | Confirmatory Virucidal Efficacy Test Using Feline | 47611934 | Evonik Degussa Corporation (54289) | OWN | |
| | calicivirus (Surrogate for Human Norovirus) | | | | |
| 810.2100 (g) | Initial Virucidal Efficacy Test Herpes Simplex Type 1 | 47611935 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (c),(d),(e) | AOAC Use Dilution Test Supplemental Using | 47630818 | Evonik Degussa Corporation (54289) | OWN | |
| | Steptococcus pneumoniae | | | | |
| | | | | | |

| | | |
|---|---|---|
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Ingredient

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|---|---|---|---|
| 810.2100 (c),(d),(e) | AOAC Use Dilution Test Supplemental Using Tichophyton | 47630819 | Evonik Degussa Corporation (54289) | OWN | |
| | mentagrophytes | | | | |
| 810.2100 (b) | AOAC Tuberculocidal Activity of Disinfectants | 47630820 | Evonik Degussa Corporation (54289) | OWN | |
| 810.2100 (m)(2) | Germicidal and Detergent Sanitizing Action of | 48360501 | Evonik Degussa Corporation (54289) | OWN | |
| | Disinfectants using Byssochlamys Fluva ATCC 10099 | | | | |
| | and Asperigillus Versicolor ATCC9577 | | | | |
| 810.2100 (m)(2) | Germicidal and Detergent Sanitizing Action of | 48360502 | Evonik Degussa Corporation (54289) | OWN | |
| | Disinfectants using Saccharomyces cerevisiae | | | | |
| | ATCC 47058, Lactobacillus buchneri ATCC 4005, and | | | | |
| | Pediococcus damnosus ATCC 29358 | | | | |
| | | | | | |
| | | | | | |

[1] The Physical and Chemical Characteristic Data can be found on Degussa's Product Specification Sheets, Which were enclosed with the original application package dated 2/25/98 (MRID 445059-00)
[2] Storage Stability Data can be found on the "Discussion of Storage Stability Data Requirement and Waiver Requested" document also enclosed with the original application package dated 2/25/98 (MRID No 445059-00)

| Signature | Name and Title | Date |
|---|---|---|
| | Tiana Rosamilia Registrations Manager | 02/07/2011 |

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**WASHINGTON, D.C. 20460**

February 3, 2011

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

OPP Decision Number: D-444703
EPA File Symbol or Registration Number: 54289-4
Product Name: PERACLEAN 15% (PEROXYACETIC ACID SOLUTION)
EPA Receipt Date: 10-Jan-2011
EPA Company Number: 54289
Company Name: EVONIK DEGUSSA CORPORATION

TIANA M. ROSAMILIA
EVONIK DEGUSSA CORPORATION
379 INTERPACE PARKWAY, PO Box 677
PARSIPPANY, NJ 07054-0677

SUBJECT: Receipt of Registration Amendment Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your amendment and certification of payment. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: A570

AMENDMENT;NON-FAST TRACK;

No additional payment is due at this time.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-6427.

Sincerely,
Theresa Greene
Front End Processing Staff
Information Technology & Resources Management Division

A

**Company :** Evonik Degussa Corporation **Check Number : 228487** **Check Date : 01/26/2011**

| REFERENCE NUMBER | DATE | CUR | GROSS AMOUNT | DISCOUNT TAKEN | NET PAYABLE |
|---|---|---|---|---|---|
| CKREQ012411 | 01/24/2011 | USD | 3,474.00 | 0.00 | 3,474.00 |
| | | | | 0.00 | 3,474.00 |

36639

PSEFRZ-B-COMP

90035877

**Evonik Degussa Corporation**

Citibank N.A.
62-20 One Penns Way
311 New Castle, DE 19720

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1005 Convention Plaza SL MO C2 GL
SAINT LOUIS MO 63197

DATE 01/26/2011

AMOUNT $********3,474.00
NOT VALID AFTER 90 DAYS

Thomas A. Bates
Roger Avery

⑈228487⑈ [redacted]

See Reverse Side For Easy Opening Instructions

Evonik Degussa Corporation
PO Box 868
Theodore, AL 36590

US EPA
US Bank Govt Lockbox 979074
1005 Convention Plaza SL MO C2 GL
SAINT LOUIS MO 63197

*Commercial/financial information may be entitled to confidential treatment*

Re: 54289-4 Payment
tiana.rosamilia
to:
Teresa Downs
02/03/2011 08:16 AM
Show Details

History: This message has been replied to.

I'm sorry

*(See attached file: US EPA Check.pdf)*

**Tiana Rosamilia, MPH**
Registrations Manager
Product Regulatory Services
Phone 443-609-4654
Tiana.rosamilia@evonik.com

**Evonik Degussa Corporation**
379 Interpace Parkway
Parsippany NJ 07054
http://www.evonik.com

This message and any attachments are the property of Evonik Industries and its subsidiaries, are confidential, and may be privileged or otherwise protected from disclosure. This message is intended solely for the use of the addressee. If you receive this e-mail in error, please telephone or e-mail the sender and delete this message and any attachments from your system. If you are not the intended recipient you are strictly prohibited from disclosing, copying, distributing or using any of this information.

Downs.Teresa---02/03/2011 08:09:14 AM---Good morning, Tiana, Our firewall prevented delivery of your attachment. Please change the

From: Downs.Teresa@epamail.epa.gov
To: tiana.rosamilia@evonik.com
Date: 02/03/2011 08:09 AM
Subject: Re: 54289-4 Payment

---

Good morning, Tiana,

Our firewall prevented delivery of your attachment. Please change the file name extension and resend.

Teresa Downs
Information Services Branch
Office of Pesticide Programs
U.S. Environmental Protection Agency

phone: (703)305-5363
fax: (703)305-7670
www.epa.gov/pesticides

From: tiana.rosamilia@evonik.com
To: Teresa Downs/DC/USEPA/US@EPA
Date: 02/03/2011 08:04 AM
Subject: Re: 54289-4 Payment

Teresa,

Here is a copy.

Tiana Rosamilia, MPH
Registrations Manager
Product Regulatory Services
Phone 443-609-4654
Tiana.rosamilia@evonik.com

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From: Tiana Rosamilia/PAR-US/MS/Degussa
To: Downs.Teresa@epamail.epa.gov@DHDEEXTERNAL
Date: 01/31/2011 03:25 PM
Subject: Re: 54289-4 Payment

I will have it sent over as soon as I can get it!! Thank you so much!!

Tiana Rosamilia, MPH
Registrations Manager
Product Regulatory Services
Phone 443-609-4654
Tiana.rosamilia@evonik.com

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From: Downs.Teresa@epamail.epa.gov
To: tiana.rosamilia@evonik.com
Date: 01/31/2011 03:24 PM
Subject: Re: 54289-4 Payment

Hi, Tiana,

Thank you for your message. Please email me a scanned copy of the check before you send it by FedEx. I forward your action for further processing once I have a copy of the check. I do not have to wait until it is processed by the bank in St. Louis.

Teresa Downs
Information Services Branch
Office of Pesticide Programs
U.S. Environmental Protection Agency
phone: (703)305-5363
fax: (703)305-7670
www.epa.gov/pesticides

From: tiana.rosamilia@evonik.com
To: Teresa Downs/DC/USEPA/US@EPA
Date: 01/31/2011 03:20 PM
Subject: 54289-4 Payment

Hi Teresa,

Due to inclement weather in NJ lately the check has taken longer to arrive than normal. Here is the view from our accounts payable department. The check will fedexed as soon as it arrives I assume tomorrow if the weather holds up.

(Embedded image moved to file: pic03430.gif)

Tiana Rosamilia, MPH
Registrations Manager
Product Regulatory Services
Phone 443-609-4654
Tiana.rosamilia@evonik.com

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********** ATTACHMENT NOT DELIVERED **********

This Email message contained an attachment named
US EPA Check.pdf.zip
which may be a computer program. This attached computer program could contain a computer virus which could cause harm to EPA's computers, network, and data. The attachment has been deleted.

This was done to limit the distribution of computer viruses introduced into the EPA network. EPA is deleting all computer program attachments sent from the Internet into the agency via Email.

If the message sender is known and the attachment was legitimate, you should contact the sender and request that they rename the file name extension and resend the Email with the renamed attachment. After receiving the revised Email, containing the renamed attachment, you can rename the file extension to its correct name.

For further information, please contact the EPA Call Center at (866) 411-4EPA (4372). The TDD number is (866) 489-4900.

********** ATTACHMENT NOT DELIVERED
**********

Re: 54289-4 Payment
tiana.rosamilia
to:
Teresa Downs
01/31/2011 03:25 PM
Show Details

I will have it sent over as soon as I can get it!! Thank you so much!!

**Tiana Rosamilia, MPH**
Registrations Manager
Product Regulatory Services
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Downs.Teresa---01/31/2011 03:24:41 PM---Hi, Tiana, Thank you for your message. Please email me a scanned copy of the check

From: Downs.Teresa@epamail.epa.gov
To: tiana.rosamilia@evonik.com
Date: 01/31/2011 03:24 PM
Subject: Re: 54289-4 Payment

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Teresa Downs
Information Services Branch
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U.S. Environmental Protection Agency
phone: (703)305-5363
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www.epa.gov/pesticides

From: tiana.rosamilia@evonik.com
To: Teresa Downs/DC/USEPA/US@EPA
Date: 01/31/2011 03:20 PM
Subject: 54289-4 Payment

Hi Teresa,

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(Embedded image moved to file: pic03430.gif)

Tiana Rosamilia, MPH
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Phone 443-609-4654
Tiana.rosamilia@evonik.com

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**Re: 54289-4 Payment**
Teresa Downs to: tiana.rosamilia 01/31/2011 03:24 PM

Hi, Tiana,

Thank you for your message. Please email me a scanned copy of the check before you send it by FedEx. I forward your action for further processing once I have a copy of the check. I do not have to wait until it is processed by the bank in St. Louis.

Teresa Downs
Information Services Branch
Office of Pesticide Programs
U.S. Environmental Protection Agency
phone: (703)305-5363
fax: (703)305-7670
www.epa.gov/pesticides

tiana.rosamilia Hi Teresa, Due to inclement weather in NJ lately... 01/31/2011 03:20:42 PM

From: tiana.rosamilia@evonik.com
To: Teresa Downs/DC/USEPA/US@EPA
Date: 01/31/2011 03:20 PM
Subject: 54289-4 Payment

Hi Teresa,

Due to inclement weather in NJ lately the check has taken longer to arrive than normal. Here is the view from our accounts payable department. The check will fedexed as soon as it arrives I assume tomorrow if the weather holds up.

*Commercial/financial information may be entitled to confidential treatment*

Check Edit Goto Extras Environment System Help

## Display Check Information

Check recipient | Check issuer... | Accompanying docs | Payment document

Paying company code: 4142 | Payment document no.: 19102528

**Bank details**

| | | | |
|---|---|---|---|
| House Bank | CITID | Bank Key | [redacted] |
| Account ID | USD00 | Bank Account | |
| Bank name | Citibank N.A. | | |
| City | New Castle, DE 19720 | | |

**Check information**

| | | | |
|---|---|---|---|
| Check number | 228487 | Currency | USD |
| Payment date | 01/26/2011 | Amount paid | 3,474.00 |
| Check encashment | | Cash discount amount | 0.00 |

**Check recipient**

| | |
|---|---|
| Name | US EPA |
| City | SAINT LOUIS |
| Payee's country | US |
| Regional code | MO |

Start | Display Check Infor... | Decision Step in Workflow | Standard PO 45003437... | Re: U...

Tiana Rosamilia, MPH
Registrations Manager
Product Regulatory Services

Phone 443-609-4654
Tiana.rosamilia@evonik.com

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**URGENT: Immediate action required to avoid rejection of application to amend Peraclean 15 (EPA reg. no. 54289-4)**

Teresa Downs to: tiana.rosamilia 01/26/2011 09:05 AM
Cc: John Jamula

Dear Ms. Rosamilia:

**This is your second and final notice that proof of PRIA fee payment is required by 2/2/11 to avoid rejection of the above action.**

The Antimicrobial Division's PRIA team has identified the above action as subject to action code A570. Please email me a pay.gov receipt or a copy of a check in the amount of $3,474 as proof of fee payment. **Please address your email providing proof of fee payment to both me and jamula.john@epa.gov.**

Teresa Downs
Information Services Branch
Office of Pesticide Programs
U.S. Environmental Protection Agency
phone: (703)305-5363
fax: (703)305-7670
www.epa.gov/pesticides

----- Forwarded by Teresa Downs/DC/USEPA/US on 01/26/2011 09:00 AM -----

From: Teresa Downs/DC/USEPA/US
To: tiana.rosamilia@evonik.com
Date: 01/19/2011 09:34 AM
Subject: RESPONSE REQUIRED BY 2/2/11: Proof of PRIA fee payment required for application to amend Peraclean 15 (EPA reg. no. 54289-4)

---

Dear Ms. Rosamilia:

The Antimicrobial Division's PRIA team has identified the above action as subject to action code A570. Please email me a pay.gov receipt or a copy of a check in the amount of $3,474 as proof of fee payment.

Section 33(B)(2(D) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended by the Pesticide Registration Improvement Renewal Act, provides that the fee is due upon submission of the application. If proof of fee payment is not received by COB on 2/2/11, then we will reject this action for non-payment of the PRIA fee and send you an invoice for $869. The Agency is required to collect a minimum of 25% of the applicable fee even if an application is rejected. If you do not pay the invoice by the date specified therein, then the fees will be treated as a claim of the United States Government subject to subchapter II of chapter 37 of title 31, United States Code.

If you have questions about the assignment of the above action code, please contact ShaRon Carlisle at carlisle.sharon@epa.gov or (703)308-6427.

I have included below some basic payment and small business fee waiver information from our website. For further information, please see: http://www.epa.gov/pesticides/regulating/fees/index.htm

ONLINE PAYMENT

To submit a payment on-line, visit www.pay.gov. From the pay.gov home page, under "Find Public Forms":

Payment prior to and at application
- select "search by form name";

- on the A-Z Index of Forms page, select "P";
- from the list of forms on the first page, select "Pesticide Registration Act - Prepayment";
- complete the form entering the PRIA fee category and fee;
- keep a copy of the pay.gov acknowledgement of payment and attach a copy to the front of the application to assure that EPA can match the application with the payment; and
- submit the application.

PAYMENT BY CHECK

The Agency has established procedures for the submission of checks via certified mail, registered mail, or courier service. Checks should be made payable to USEPA or Environmental Protection Agency.

**Note:** Received checks will be converted into an electronic funds transfer (EFT). This means we will copy your check and use the account information on it to electronically debit your account for the amount of the check. The debit from your account will usually occur within 24 hours, and will be shown on your regular account statement.

You will not receive your original check back. We will destroy your original check, but we will keep the copy of it. If the EFT cannot be processed for technical reasons, you authorize us to process the copy in place of your original check. If the EFT cannot be completed because of insufficient funds, we may try to make the transfer up to two times.

Checks may be sent:

| By USPS Mail: | By courier: |
|---|---|
| U.S. Environmental Protection Agency<br>Washington Finance Center<br>FIFRA Service Fees<br>P.O. Box 979074<br>St. Louis, MO 63197-9000 | U.S. Bank<br>Government Lockbox 979074<br>1005 Convention Plaza<br>SL-MO-C2-GL<br>St. Louis, MO 63197<br>(314) 418-4990 |

## Guidance on Small Business Waivers

### 1. Under what circumstances is a small business eligible for a fee waiver?

An applicant that meets the definition of a small business is eligible for a fifty percent (50%) waiver of the pesticide registration service fee. A small business means a corporation, partnership, or un-incorporated business that has 500 or fewer employees and during the 3-year period prior to the most recent maintenance fee billing cycle, has an average annual global gross revenue from pesticides that did not exceed $60 million (including any such revenue from all of its affiliates). In addition, a small business that has average annual global gross revenues from pesticides of less than $10 million (including any such revenue from all of its affiliates) over the past 3-year maintenance fee billing cycle at the time of the application is eligible for a 75% waiver of the pesticide registration service fee.

### 2. What is the previous "maintenance fee billing cycle" referred to in the statute?

The "maintenance fee billing cycle" is a yearly cycle commencing on January 15th. Therefore, the relevant time periods for measuring whether an applicant meets the definition of a small business are the applicant's three fiscal years preceding the January 15th of the year in which the application is received.

### 3. What are affiliates of an applicant for purposes of requesting a small business fee waiver?

Affiliates include direct and indirect subsidiary and parent entities of the applicant as well as entities that are controlled directly or indirectly by the owner(s) or any parent entity of the applicant. In addition, two unrelated entities are affiliates if they are both owned or controlled by the same entity or person. Specifically, business entities are affiliates of each other if, directly or indirectly, either entity controls or has the power to control the other entity, or a third entity controls or has the power to control both entities. Indicia of control include interlocking management or ownership, identify of interests among family members, shared facilities and equipment, and common use of employees. Accordingly, control is not limited to voting control over another entity.

**4. What information should I include in my request for a fee waiver as a small business?**

The request should be in writing and include the following information:

- The company name and company number assigned by OPP to the applicant, the official mailing address under FIFRA, the telephone number and e-mail or fax number of the contact person regarding the fee waiver or reduction request.
- A certification signed by a responsible officer that the documentation submitted to support the waiver or reduction request is true, complete, and correct.
- An ownership structure chart depicting the relationship of the applicant to subsidiaries and parent entities that are directly or indirectly controlled by the owner(s) or any parent entity of the applicant, if appropriate. If the applicant does not have a parent entity, the percentage ownership interest of the direct and indirect owner(s) or shareholders of the applicant should be disclosed. If the applicant does not have a parent entity, the percentage ownership interest of the direct and indirect owner(s) or shareholders of the applicant should be disclosed. If the applicant does have a parent company (or companies), the ownership of the ultimate parent entity should also be disclosed.
- A narrative or explanatory information, if appropriate, addressing whether related entities are affiliates.
- A narrative or explanatory information, if appropriate, explaining how the applicant differentiated its global gross receipts from pesticides from other revenue and how such revenue was calculated, both for the applicant and for any affiliates. The rationale should explain what types of revenues have been excluded.
- Appropriate supporting documentation demonstrating that the criteria for the waiver or reduction from the registration service fee are met.

Voluntary Small Business Waiver Form PDF (1 p, 29 kb, About PDF) EXIT Disclaimer -- A workgroup comprising representatives of registrant companies and trade associations designed a form for assisting pesticide registrants when they submit small business waiver requests under the Pesticide Registration Improvement Act. EPA staff provided input to the process. Use of the form is voluntary and information submitted using the forms will be accepted by the Agency. Other formats that meet the requirements of the statute will be acceptable to the Agency as well.

**5. What information is required for certification for a fee waiver?**

A certification should include:

1. information on business identification;
2. information regarding the number of employees of the applicant;
3. information regarding the ownership of the applicant and affiliated entities;
4. information regarding the global gross revenue from pesticides (of the applicant as well as any affiliates); and
5. a certification statement signed by a responsible officer that the information provided is true, complete, and correct.

Sincerely,

Teresa Downs
Information Services Branch
Office of Pesticide Programs

U.S. Environmental Protection Agency
phone: (703)305-5363
fax: (703)305-7670
www.epa.gov/pesticides

**RESPONSE REQUIRED BY 2/2/11: Proof of PRIA fee payment required for application to amend Peraclean 15 (EPA reg. no. 54289-4)**

Teresa Downs to: tiana.rosamilia 01/19/2011 09:34 AM

Dear Ms. Rosamilia:

The Antimicrobial Division's PRIA team has identified the above action as subject to action code A570. Please email me a pay.gov receipt or a copy of a check in the amount of $3,474 as proof of fee payment.

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Payment prior to and at application

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You will not receive your original check back. We will destroy your original check, but we will keep the copy of it. If the EFT cannot be processed for technical reasons, you authorize us to process the copy in place of your original check. If the EFT cannot be completed because of insufficient funds, we may try to make the transfer up to two times.

Checks may be sent:

| By USPS Mail: | By courier: |
|---|---|
| U.S. Environmental Protection Agency<br>Washington Finance Center<br>FIFRA Service Fees<br>P.O. Box 979074<br>St. Louis, MO 63197-9000 | U.S. Bank<br>Government Lockbox 979074<br>1005 Convention Plaza<br>SL-MO-C2-GL<br>St. Louis, MO 63197<br>(314) 418-4990 |

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ownership of the ultimate parent entity should also be disclosed.

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· A narrative or explanatory information, if appropriate, explaining how the applicant differentiated its global gross receipts from pesticides from other revenue and how such revenue was calculated, both for the applicant and for any affiliates. The rationale should explain what types of revenues have been excluded.

· Appropriate supporting documentation demonstrating that the criteria for the waiver or reduction from the registration service fee are met.

Voluntary Small Business Waiver Form PDF (1 p, 29 kb, About PDF) EXIT Disclaimer -- A workgroup comprising representatives of registrant companies and trade associations designed a form for assisting pesticide registrants when they submit small business waiver requests under the Pesticide Registration Improvement Act. EPA staff provided input to the process. Use of the form is voluntary and information submitted using the forms will be accepted by the Agency. Other formats that meet the requirements of the statute will be acceptable to the Agency as well.

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2. information regarding the number of employees of the applicant;
3. information regarding the ownership of the applicant and affiliated entities;
4. information regarding the global gross revenue from pesticides (of the applicant as well as any affiliates); and
5. a certification statement signed by a responsible officer that the information provided is true, complete, and correct.

Sincerely,

Teresa Downs
Information Services Branch
Office of Pesticide Programs
U.S. Environmental Protection Agency
phone: (703)305-5363
fax: (703)305-7670
www.epa.gov/pesticides

Released

~~ON HOLD~~

# Pending receipt of certification of PRIA fee payment

**Date placed on hold:** 1/19/11

**Date released:** 2/3/11

**Receipt: S-** 888615

**File Symbol/Reg. #:** 54289-4

**Registrant contact information:**

**Name:** Tiana Rosamilia @ evonik.com

**Phone #/Email address:** 443-609-4654

**Notes:** No fee payment

1/19/11 Sent email

1/26/11 " 2nd "

1/31/11 Left voice message

Information Services Branch point of contact: Teresa Downs, S-6922, (703)305-5363

**Re: Follow up to the voice message I left on 1/11**
ShaRon Carlisle to: Teresa Downs 01/13/2011 03:19 PM
Cc: Dennis Edwards

Hi Teresa
leave the action code as an A570. The PM, Marshall Swindell, will work out the removal of the FDA claim with the registrant

Thanks,
ShaRon Carlisle
Ombudsperson
Antimicrobials Division
Office of Pesticide Programs
703.308.6427

Teresa Downs Hi, ShaRon, I still have this action on my desk. ... 01/13/2011 02:26:25 PM

| | |
|---|---|
| From: | Teresa Downs/DC/USEPA/US |
| To: | ShaRon Carlisle/DC/USEPA/US@EPA |
| Cc: | Dennis Edwards/DC/USEPA/US@EPA |
| Date: | 01/13/2011 02:26 PM |
| Subject: | Follow up to the voice message I left on 1/11 |

Hi, ShaRon,

I still have this action on my desk. The PRIA coding sheet and the cover letter are attached below. If this is an FDA action, why was it given a PRIA code?

[attachment "[Untitled].pdf" deleted by ShaRon Carlisle/DC/USEPA/US]

Teresa Downs
Information Services Branch
Office of Pesticide Programs
U.S. Environmental Protection Agency
phone: (703)305-5363
fax: (703)305-7670
www.epa.gov/pesticides

# Fee for Service

{888615?~

This package includes the following

- ○ New Registration
- ◉ Amendment

for Division

- ◉ AD
- ○ BPPD
- ○ RD

☑ Studies? ☐ Fee Waiver?

☐ volpay % Reduction: ___

Risk Mgr. 33

Receipt No. S- 888615

EPA File Symbol/Reg. No. 54289-4

Pin-Punch Date: 1/10/2011

This item is NOT subject to FFS action.

**Action Code:**

Requested:

Granted: A570

Amount Due: $ 3,474

**Parent/Child Decisions:**

☐ Inert Cleared for Intended Use ☐ Uncleared Inert in Product

Reviewer:_____ Date:_____

Remarks: 21 day processing group. Please note that we cannot process applications with FDA uses. Processed fruits & vegetables fall under FDA's jurisdiction. We don't have a memorandum of understanding between EPA and FDA for processed foods

EVONIK
INDUSTRIES

Document Processing Desk (AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency Room S-4900,
One Potomac Yard 2777 South Crystal Drive
Arlington, VA 22202-4501

January 5, 2011

**Tiana M. Rosamilia**
Product Regulatory Services
Phone 443-609-4654
Fax +1 973 541-8040

Tiana.Rosamilia@evonik.com

**Evonik Degussa Corporation**
379 Interpace Parkway
Parsippany NJ 07054
www.evonik.com

ATTN: Marshall Swindell
Product Manager, Team 33
Antimicrobials Division

Subject: Amendment for PERACLEAN™ 15 to add claims

Product: PERACLEAN™ 15 (EPA Reg. No. 54289-4)

Dear Mr. Swindell,

Evonik Degussa is submitting this amendment for PERACLEAN™ 15 to reflect the following additions to the label:

1. 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 diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.
2.Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR173.315 (a) 5
3.The treated produce can be drain dried without a potable water rinse.
4.Do not reuse solution after treatment.

This use is supported by FCN 1025 which has been included for your reference.

EVONIK INDUSTRIES

2. 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, Byssochlamys fulva, Pediococcus damnosus, Lactobacillus buchneri, and Saccharomyces cerevisiae.

1.Prepare PERACLEAN® 15 solution by adding 9.85 fl. oz. to 5 gallons potable water. This provides 2,632 ppm peroxyacetic acid.

2.Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period.

3.Allow containers to drain thoroughly, and then rinse with sterile or potable water.

There are 2 studies that are being submitted to support this claim. The studies use our PERACLEAN 5 formulation for testing. We will be using the same exact concentration as used on the 5% however just a different dilution rate to adjust for the 15% formulation. Both formulations of PERACLEAN are almost identical. In the data that is submitted please recognize that all statements made regarding supplemental claims of data confidentiality that may be found of pg 23 of the reports is to be superseded with the statement claim of NO DATA CONFIDENTIALITY. No claim of confidentiality is made for any and all information contained in this study or the protocol of this study on the basis of its falling within the scope of FIFRA 10(D)(1)(A),(B) or (C).

3. We will also be removing all references to 3M.

4. Under Sanitizing Food contact Surfaces we will be updating the language from Drain and air dry to *drain thoroughly.*

Enclosed are:

- Application for Amendment
- Six copies of the updated final label with the changes highlighted for your convenience.
- 3 Copies of the final study reports
- MRID document
- FCN 1025 approval letter from FDA

Best regards,

Please read instructions on reverse before com, g form. Form Approved. B No. 2070-0060

Print Form

EPA

United States
Environmental Protection Agency
Washington, DC 20460

[ ] Registration
[X] Amendment
[ ] Other

OPP Identifier Number

## Application for Pesticide - Section I

| | | |
|---|---|---|
| 1. Company/Product Number<br>Evonik Degussa / 54289-4 | 2. EPA Product Manager<br>Marshall Swindell | 3. Proposed Classification<br>[X] None [ ] Restricted |
| 4. Company/Product (Name)<br>PERACLEAN 15 | PM#<br>33 | |

5. Name and Address of Applicant *(Include ZIP Code)*

Evonik Degussa Corporation
379 Interpace PArkway PArsippany NJ 07054

[ ] *Check if this is a new address*

6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

## Section - II

[X] Amendment - Explain below.
[ ] Resubmission in response to Agency letter dated _____
[ ] Notification - Explain below.
[ ] Final printed labels in response to Agency letter dated _____
[ ] "Me Too" Application.
[ ] Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Add use for processed fruits and vegetables, remove all 3M reference and add PET bottle washing

## Section - III

1. Material This Product Will Be Packaged In:

| Child-Resistant Packaging | Unit Packaging | Water Soluble Packaging | 2. Type of Container |
|---|---|---|---|
| [ ] Yes*<br>[ ] No | [ ] Yes<br>[ ] No | [ ] Yes<br>[ ] No | [ ] Metal<br>[ ] Plastic<br>[ ] Glass<br>[ ] Paper<br>[ ] Other (Specify) _____ |
| * *Certification must be submitted* | If "Yes" Unit Packaging wgt. / No. per container | If "Yes" Package wgt / No. per container | |

| 3. Location of Net Contents Information | 4. Size(s) Retail Container | 5. Location of Label Directions |
|---|---|---|
| [ ] Label [ ] Container | | [ ] On Label<br>[ ] On Labeling accompanying product |

6. Manner in Which Label is Affixed to Product [ ] Lithograph [ ] Paper glued [ ] Stenciled [ ] Other _____

## Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

| Name | Title | Telephone No (Include Area Code) |
|---|---|---|
| Tiana Rosamilia | Registrations Manager | 443-509-4654 |

### Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

| | |
|---|---|
| 2. Signature<br>Tiana | 3. Title<br>Registrations Manager |
| 4. Typed Name<br>Tiana Rosamilia | 5. Date<br>Jan 5, 2011 |

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

Decision #: 444703
DP #: (387212)
PRIA
Parent DP #:
Submission #: 888615

# DATA PACKAGE BEAN SHEET

**Date: 01-Mar-2011**



## * * * Registration Information * * *

**Registration: 54289-4 - PERACLEAN 15% (PEROXYACETIC ACID SOLUTION)**

Company: 54289 - EVONIK DEGUSSA CORPORATION

Risk Manager: RM 33 - Marshall Swindell - (703) 308-6341 Room# PY1 S-8828

Risk Manager Reviewer: Martha Terry MTERRY

Sent Date: Calculated Due Date: 02-Jul-2011 Edited Due Date:

Type of Registration: Product Registration - Section 3

Action Desc: (A570) AMENDMENT;NON-FAST TRACK;

Ingredients: 000595, Hydrogen peroxide(22%)

063201, Ethaneperoxoic acid(15%)

## * * * Data Package Information * * *

Expedite: ◯ Yes ● No Date Sent: 01-Mar-2011 Due Back:

DP Ingredient: 000595, Hydrogen peroxide

063201, Ethaneperoxoic acid

DP Title:

CSF Included: ◯ Yes ● No Label Included: ● Yes ◯ No Parent DP #:

120/90

| Assigned To | | Date In | Date Out |
|---|---|---|---|
| Organization: | AD / PSB | 3/1/11 | |
| Team Name: | EET | 3/1/11 | |
| Reviewer Name: | Ibrahim | 3/24/11 | |
| Contractor Name: | CSC | 3/1/11 | |

Last Possible Science Due Date: 02-Jun-2011

Science Due Date: 5/13/11

Sub Data Package Due Date: 5/27/11

## * * * Studies Sent for Review * * *

Printed on Page 2

## * * * Additional Data Package for this Decision * * *

No Additional Data Packages

## * * * Data Package Instructions * * *

Please review the efficacy data package inclueding the laboe (MRID's #483605-01 and 483605-02

3/1/11

DP#: (387212) *** * * Studies Sent for Review * * *** Decision#: (444703)

| MRID | MRID Status | Citation Reference | Guideline |
|---|---|---|---|
| 48360502 | | Hollingsworth, A. (2004) Peraclean 5%: Germicidal and Detergent Sanitizing Action of Disinfectants: (Saccharomyces cerevisiae, Lactobacillus buchneri and Pediococcus damnosus): Final Report. Project Number: 529/103, 529/1/03/18/04. Unpublished study prepared by MicroBioTest, Inc. 26 p. | 810.2100/Products for use on hard surfaces-basic efficacy data requirements |
| 48360501 | | Hollingsworth, A. (2004) Peraclean 5%: Germicidal and Detergent Sanitizing Action of Disinfectants: (Byssochiamys fluva and Aspergillus versicolor): Final Report. Project Number: 529/2/03/18/04. Unpublished study prepared by MicroBioTest, Inc. 25 p. | 810.2100/Products for use on hard surfaces-basic efficacy data requirements |

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

PERACLEAN® 5 can be applied as a foam for sanitization for previously clean hard non-porous food contact surfaces and general environmental (non-food contact) hard non-porous surfaces such as floors, walls, ceilings, drains, and boots. Foam applications can be used where penetration and retention of product for required times is difficult to achieve. Examples included operating conveyor belts and vertical or uneven surfaces.

1. Prepare a dilute PERACLEAN® 5 solution by adding 1.0 to 2.3 fl oz. per 5 gallons of potable water.
2. After preparing the PERACLEAN® 5 solution add 1.0 to 10.0 fl oz. of AGRHO FM-2011. AGRHO FM-2011 is the only approved foam generating additive for use with PERACLEAN® 5.
3. Apply the sanitizing solution as a foam using commercially available foam generating equipment. Allow foam to contact surfaces at least one minute. For foot bath application allow foam to remain on boot surface for one minute upon exiting the bath.
4. Drain items and or surfaces thoroughly.

SANITIZATION

NOTE. FOR MECHANICAL OPERATIONS prepared use solution may not be used for subsequent sanitizing but may be reused for other purposes such as cleaning. FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled. PERACLEAN® 5 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO3. This product has demonstrated greater than a 99.999% reduction of survivors after a 60 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

SANITIZING FOOD CONTACT SURFACES

Effective against Staphylococcus aureus and Escherichia coli, Pseudomonas Auriginosa and Salmonella typhimurium [(ATCC 23564)]

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

SANITIZING, EATING, DRINKING, AND FOOD PREP UTENSILS

Remove gross food particles by a pre-scrape, a pre-flush and, when necessary, a presoak treatment. Wash with a recommended detergent. Rinse with clean water. Sanitize in a solution of 1.0 to 1.5 fl. oz. PERACLEAN® 5 dissolved 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.

SANITIZING TABLEWARE

For sanitizing tableware in low temperature warewashing machines, inject PERACLEAN® 5 into the final rinse water at a concentration of 1.0 to 1.5 fl. oz. PERACLEAN® 5 dissolved in 5 gallons of water. Do not exceed 0.16 to 0.22% v/v. Air dry. This will provide 88 to 130 ppm of peroxyacetic acid. To insure that the PERACLEAN® 5 sanitizer concentration does not fall below 48 ppm peroxyacetic acid, periodcally test the rinse solution with a suitable test kit and adjust the dispensing rate accordingly. Consult your technical service representative for assistance and further information on sanitizing tableware in warewashing machines.

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, Byssochlamys fulva, Pediococcus damnosus, Lactobacillus buchneri, and Saccharomyces cerevisiae.

1. Prepare PERACLEAN® 5 solution by adding 31 fl. oz. to 5 gallons potable water. This provides 2,632 ppm peroxyacetic acid.
2. Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period.
3. Allow containers to drain thoroughly, and then rinse with sterile or potable water.

Note: → For tested product

FINAL SANITIZING BOTTLE RINSE

PERACLEAN® 5 may be used as a final sanitizing rinse for returnable and non-returnable bottles at a 0.16 to 0.22% dilution (1.0 to 1.5 fl. oz. PERACLEAN® 5 dissolved in 5 gallons of water). This will provide 88 to 130 ppm of peroxyacetic acid.

HARD SURFACE DISINFECTION

PERACLEAN® 5 disinfects as it cleans in one operation. PERACLEAN® 5 can be used to disinfect floors, walls and other hard nonporous surfaces such as tables, chairs, countertops bathroom fixtures, sinks, bed frames, shelves, racks carts, refrigerators, coolers, tile and use sites on this label made from linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

COMBINATION DISINFECTION AND CLEANING

PERACLEAN® 5 is effective against Staphylococcus aureus, Salmonella choleraesuis, Trichophyton mentagrophytes, and Escherichia coli 0157:H7 at 0.23% (1.5 fl. oz./5 gal.) in hard water (400 ppm as CaCO3) and 5% fetal bovine serum on hard nonporous surfaces. For heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.

When used as directed, PERACLEAN® 5 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, and furniture. In addition PERACLEAN® 5 will deodorize those areas which are generally hard to keep smelling fresh such as, garbage storage areas, empty garbage bins and cans, and any other areas which are prone to odors caused by microorganisms.

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

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

BATCH SANITIZATION (NON-FOOD CONTACT SURFACES) OF ULTRA FILTRATION AND REVERSE OSMOSIS (RO) MEMBRANES

PERACLEAN® 5 can be used for the sanitization of ultra filtration medical and non-medical institutional/industrial reverse osmosis (RO) membranes and their associated distribution systems.

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

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 prior to sanitizing the membranes with PERACLEAN® 5. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate volume of 1% solution of the product (1 gallon of PERACLEAN® 5 to 100 gallons of water). This will provide 549 ppm of peroxyacetic acid and 2,967 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). Re-circulate the dilute solution of PERACLEAN® 5 for a minimum of 10 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 peroxygen. Diverting product water to drain can reduce residuals.

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

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

# PERACLEAN® 5 Ⓥ

# (PEROXYACETIC ACID SOLUTION)

## PERACLEAN® 5 IS A PEROXYACETIC ACID-BASED SANITIZER/ DISINFECTANT DEVELOPED FOR THE FOLLOWING USES:

| | | |
|---|---|---|
| **Institutional/Industrial Sanitizing of Previously Cleaned Non-Porous Food Contact Surfaces in:**<br>·Dairies<br>·Wineries<br>·Breweries<br>·Food and Beverage Plants<br>·Disinfecting Poultry Premises<br>·Poultry Hatcheries<br>·Animal Housing Facilities<br>·Reverse Osmosis Membranes and Ultra Filtration | **Hard Surface Disinfection in:**<br>·Industrial Facilities<br>·Office Buildings<br>·Recreational Facilities<br>·Retail and Wholesale Establishments<br><br>**Bacteria, Fungi, and Slime Control in:**<br>·Pulp and Paper Mill Systems<br>·Dispersed Pigments<br>·Cooling Water Systems<br>·Coatings Preservation<br><br>Label not for use in California | Active Ingredients:<br>Hydrogen Peroxide 26.5%<br>Peroxyacetic Acid 4.9%<br>Inert Ingredients: 68.6%<br><br>Total: 100%<br><br>Net contents as stated on container<br><br>**EPA Reg No: 54289-3**<br><br>**EPA ESTAB. NO: 70547-IL-001 70253-CA-002** |

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

KEEP OUT OF REACH OF CHILDREN

# DANGER

## FIRST AID

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

If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.

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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**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, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

PHYSICAL AND CHEMICAL HAZARDS

**STRONG OXIDIZING AGENT.** Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. PERACLEAN® 5 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 invertebrates. 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.

STORAGE AND DISPOSAL

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

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

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

**CONTAINER DISPOSAL:** Non-refillable 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 5 gallons or greater:** Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth ensuring at least 1 complete revolution, for 30 seconds. Stand container on its end and tip back and forth several times. Empty rinsate into application equipment, mix tank, or store for disposal. Then offer for recycling, or dispose in a sanitary landfill, or incineration if allowed by state and local authorities by burning.

EVONIK INDUSTRIES

Manufactured by:
Evonik Degussa Corporation
379 Interpace Parkway, P.O. Box 677
Parsippany, New Jersey 07054-0677

OMRI

BIOLOGICAL MATTER BE[...]
SYSTEMS ASSOCIATED WI[...]
Do Not Use for Any Applic[...] PERACLEAN® 5, as rece[...] feed water system, betwe[...] the re growth/accumulatio[...] system which will be effect[...] of the system. Adjust the [...] periodically monitor residu[...] For continuous addition, c[...] gallons of water) PERACL[...] 5.3 ppm hydrogen peroxide[...] fl. oz. of product per 100 g[...] ppm peroxyacetic acid and[...]

FOGGING

PERACLEAN® 5 is for [...] acceptable manual cleanin[...]
1. Prior to fogging, remove [...] materials
2 Ensure room is properly [...] fogging and for a minimum [...] odor characteristic of aceti[...] Do not enter room until hy[...] and are below 1ppm, on a [...]
3. Fog areas using one qu[...] water) per 1,000 cu. ft. of [...] before operations are resu[...]

DISINFECTIO[...] [...]LTRY F[...]
POULTRY HAT[...]ERY DISIN[...]
Remove all poultry and fee[...] all litter and droppings fro[...] traversed by poultry. Empt[...] appliances. Thoroughly cle[...] Saturate surfaces with a 0[...] for a period of 10 minutes. Do not house poultry or en[...] set or dried. Thoroughly s[...] fountains and waterers wit[...] reuse. See your technical [...] cleaning and rinsing require[...]

DISINFECTION AND DEODO[...]
KENNELS, HUTCHES, ETC.)
Do not use in milking stal[...] cresylic acid, and pine oils) [...] and enclosures. Remove l[...] and surfaces of barns, pe[...] occupied or traversed by a[...] and watering equipment. [...] rinse with water. Saturate [...] PERACLEAN® 5 for a per[...] other types of equipment u[...] forks, shovels, and scrape[...] buildings, cars, boats, and [...] employ equi[...] until trea[...] scrub all t[...]ed racks [...] and watere[...] soap or d[...]

FOR SANITIZING OF HATCH[...]
Prepare a solution of PERA[...] with 5 gallons of water. As [...] as a coarse spray so as to [...] NOTE: This product at its [...] aluminum surfaces. If pro[...] it is recommended that you [...] compatibility before procee[...]

BIOFOULING CONTROL IN P[...]
For use in the manufacture [...] and non-food contact. PER[...] and fresh water organisms [...] and influent water systems [...] to: stock chests, pulpers, th[...] and influent water streams.

INFLUENT WATER SYSTEMS
PERACLEAN® 5 should be [...] (non potable use only) at d[...] acid (200 to 20,000 ppm F[...]

...s a final sanitizing rinse for returnable
... to 0.22% dilution (1.0 to 1.5 fl. oz.
...lons of water). This will provide 88 to 130

...ans in one operation. PERACLEAN® 5
... and other hard nonporous surfaces such
...room fixtures, sinks, bed frames, shelves,
...c and use sites on this label made from
...porcelain, plastic (such as polypropylene,
... glass

...NING
...st Staphylococcus aureus, Salmonella
...ophytes, and Escherichia coli 0157:H7
...water (400 ppm as $CaCO_3$) and 5% fetal
...rfaces. For heavily soiled areas a pre-
...solution with mop, cloth, sponge, brush,
...or by soaking so as to wet all surfaces
...t 10 minutes, then remove solution and
... cloth, or wet vacuum pickup. Prepare a
...nes soiled or diluted.
...AN® 5 is specifically designed to disinfect,
..., surfaces such as walls, floors, sink tops,
...EAN® 5 will deodorize those areas which
... fresh such as, garbage storage areas,
...any other areas which are prone to odors

...act food, feed, or drinking water must be
...se.
...aning step is required. Prepare a fresh

...) CONTACT SURFACES) of ULTRA
(RO) MEMBRANES
...he sanitization of ultra filtration, medical
...nal reverse osmosis (RO) membranes
...tems.
...e an effective disinfectant when tested
...product may not eliminate all vegetative
... membranes and their associated piping
...nd/or assembly, but can be relied upon
...isms to acceptable levels when used as
...anufacturer for membrane compatibility

... from the membrane or other parts of the
... Flush the system with RO permeate or
...al deposits with suitable acidic cleaner
...ith PERACLEAN® 5. Flush the system
...r quality water. Prepare an appropriate
...ct (1 gallon of PERACLEAN® 5 to 100
...49 ppm of peroxyacetic acid and 2,967
...re water circuit to be sanitized with the
...n to reach a minimum of 20°C (68°F).
...PERACLEAN® 5 for a minimum of 10
... to soak in the solution for a minimum
...m and test for residuals to ensure that
... Diverting product water to drain can

... CONTACT SURFACES) ... PIPING
...MBRANES
... piping system. This includes activated
...uipment. Turn off power to ultraviolet
... water contained in the system (tanks,
... an appropriate volume of 1.0 to 1.5%
... 5 gallons of the product for every 100
...O permeate or similar quality water for
...3 ppm peroxyacetic acid and 2,967 to
...-circulate the dilute PERACLEAN® 5
...mum of 4 hours. Process usage valves
...ose internals to the PERACLEAN® 5
... PERACLEAN® 5 solution. Thoroughly
...rmeate or similar quality water and re-
...process until test for residuals indicates

# (PEROXYACETIC ACID SOLUTION)

## PERACLEAN® 5 IS A PEROXYACETIC ACID-BASED SANITIZER/ DISINFECTANT DEVELOPED FOR THE FOLLOWING USES:

| | | |
|---|---|---|
| **Institutional/Industrial Sanitizing of Previously Cleaned Non-Porous Food Contact Surfaces in:**<br>•Dairies<br>•Wineries<br>•Breweries<br>•Food and Beverage Plants<br>•Disinfecting Poultry Premises<br>•Poultry Hatcheries<br>•Animal Housing Facilities<br>•Reverse Osmosis Membranes and Ultra Filtration | **Hard Surface Disinfection in:**<br>•Industrial Facilities<br>•Office Buildings<br>•Recreational Facilities<br>•Retail and Wholesale Establishments<br><br>**Bacteria, Fungi, and Slime Control in:**<br>•Pulp and Paper Mill Systems<br>•Dispersed Pigments<br>•Cooling Water Systems<br>•Coatings Preservation<br><br>Label not for use in California | Active Ingredients:<br>Hydrogen Peroxide 26.5%<br>Peroxyacetic Acid 4.9%<br>Inert Ingredients: 68.6%<br><br>Total: 100%<br><br>Net contents as stated on container<br><br>**EPA Reg No: 54289-3**<br><br>**EPA ESTAB. NO: 70547-IL-001<br>70253-CA-002** |

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

KEEP OUT OF REACH OF CHILDREN

# DANGER

## FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.
If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.
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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**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, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

PHYSICAL AND CHEMICAL HAZARDS

**STRONG OXIDIZING AGENT.** Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. PERACLEAN® 5 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 invertebrates. 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.

STORAGE AND DISPOSAL

**Storage and Disposal:** Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Non-refillable 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 5 gallons or greater:** Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth ensuring at least 1 complete revolution, for 30 seconds. Stand container on its end and tip back and forth several times. Empty rinsate into application equipment, mix tank, or store for disposal. Then offer for recycling, or dispose in a sanitary landfill, or incineration if allowed by state and local authorities by burning.

EVONIK INDUSTRIES

Manufactured by:
Evonik Degussa Corporation
379 Interpace Parkway, P.O. Box 677
Parsippany, New Jersey 07054-0677

OMRI

BIOLOGICAL MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN PIPING SYSTEMS ASSOCIATED WITH RO MEMBRANES.

Do Not Use for Any Applications Involving Food or Drinking Water Contact
PERACLEAN® 5, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the re-growth/accumulation of biological matter. The 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 PERACLEAN® 5 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition, do not exceed 20 ppm (1 fl. oz. of product per 440 gallons of water) PERACLEAN® 5. This will give 1 ppm peroxyacetic acid and 5.3 ppm hydrogen peroxide. For intermittent feed, do not exceed 2,000 ppm (23 fl. oz. of product per 100 gallons of water) PERACLEAN® 5. This will give 100 ppm peroxyacetic acid and 530 ppm hydrogen peroxide.

FOGGING

PERACLEAN® 5 is for sanitizing hard room surfaces, as an adjunct to acceptable manual cleaning and disinfection of room surfaces.
1.Prior to fogging, remove or carefully protect all food products and packaging materials.
2.Ensure room is properly ventilated. Vacate all personnel from room during fogging and for a minimum of 2 hours after fogging. Ensure there is no strong odor characteristic of acetic acid, before having personnel return to work area. Do not enter room until hydrogen peroxide concentrations are correctly tested and are below 1ppm, on a time weighted average.
3.Fog areas using one quart of a 0.3% solution (3.5 fl. oz. per 10 gallons of water) per 1,000 cu. ft. of room volume. Allow surfaces to drain thoroughly before operations are resumed.

DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS, AND CRATES

POULTRY HATCHERY DISINFECTION

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.23% (1.5 fl. oz./5 gal.) solution of PERACLEAN® 5 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HUTCHES, ETC.)

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

FOR SANITIZING OF HATCHING EGGS

Prepare a solution of PERACLEAN® 5 by diluting 1.0 fl. oz. PERACLEAN® 5 with 5 gallons of water. As eggs are gathered or prior to setting, apply solution as a coarse spray so as to lightly wet all shell surfaces.
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 compatibility before proceeding with its use.

BIOFOULING CONTROL IN PULP AND PAPERMILL SYSTEMS

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact. PERACLEAN® 5 can be used to control bacteria, fungi and fresh water organisms in paper, paperboard, or non-woven 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 influent water streams.

INFLUENT WATER SYSTEMS

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

CONTACT DISPERSED PIGMENTS

PERACLEAN® 5 can be used in the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and diatomaceous earth used in paint and paper production. Add 0.3 to 1.5 lbs. (4.1 to 20.6 fl. oz.) of PERACLEAN® 5 to each 1,000 lbs. of pigment slurry. This will provide 14.6 to 73.5 ppm peroxyacetic acid (300 to 1,500 ppm PERACLEAN® 5).

MILL PROCESS WATERS

•Continuous Feed - PERACLEAN® 5 should be fed continuously at dosages ranging from 10 to 978 ppm peroxyacetic acid (200 to 20,000 ppm PERACLEAN® 5). This range is equivalent to 0.4 to 40 lbs. PERACLEAN® 5 per ton (dry basis) of pulp or paper produced.
•Intermittent Feed - PERACLEAN® 5 should be fed intermittently (6 to 8 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (200 to 20,000 ppm PERACLEAN® 5). This dosage is equivalent to 0.4 to 40 lbs. PERACLEAN® 5 per ton (dry basis) of pulp or paper produced during the feed period.
•Shock Dose - PERACLEAN® 5 should be shock dosed at dosages ranging from 98 to 1,956 ppm peroxyacetic acid (2,000 to 40,000 ppm PERACLEAN® 5). This dosage may be equivalent to 4 to 80 lbs. PERACLEAN® 5 per ton (dry basis) of pulp or paper produced during the feed period.

CONTROL OF SLIME FORMING BACTERIA TO COOLING WATER SYSTEMS (COOLING TOWERS EVAPORATIVE CONDENSERS).

•Severely fouled systems should be cleaned before adding the PERACLEAN® 5 solution. PERACLEAN® 5 should be added in the system directly and not mixed with any other chemicals or additives. Contamination with other chemicals could result in product decomposition.
•Add PERACLEAN® 5 at a point in the system where uniform mixing and even distribution will occur.
•Use 0.3 to 1.5 lb. (4.1 to 20.6 fl. oz.) of PERACLEAN® 5 per 1,000 gallons of solution as a continuous or intermittent slug treatment. This will provide 1.8 to 8.8 ppm peroxyacetic acid (36 to 180 ppm PERACLEAN® 5). Repeat treatment as required to maintain control.

FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VEGETABLE SURFACES

PERACLEAN® 5 can be applied by fogging 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 post-harvest process.
1.Ensure room is properly ventilated. Vacate all personnel from room during fogging and for a minimum of 2 hours after fogging. Ensure there is no strong odor characteristic of acetic acid before having personnel return to work area. Do not enter room until hydrogen peroxide concentrations are correctly tested and are below 1 ppm on a time weighted average.
2.Fog areas using one quart of a 0.2% solution (3.5 fl. oz. per 16 gallons of water) per 1,000 cu. ft. of room volume. Allow surfaces to drain thoroughly before operations are resumed.
PERACLEAN® 5 can be applied as a dip or spray to control the growth of non public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the post harvest process. This product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the post-harvest process prior to, simultaneously with or after detergent wash.
1.Prepare treating solution by diluting 3 to 3.5 fl. oz. per 16 gallons of potable water. This will provide 88 to 100 ppm of peroxyacetic acid.
2.Apply the diluted sanitizer solution using a spray directed at the fruits or vegetables, or by soaking the fruits or vegetables in the solution. Allow a 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.

[illegible]

PERACLEAN® 5 can be used to control the spread of citrus canker between inanimate surfaces and inanimate surfaces to plants. This product is for sanitizing surfaces such as packing house conveyors and harvesting equipment and containers. This product is not for treatment of infected plants.
PERACLEAN® 5 is an effective [illegible] microorganisms such as Xanth[illegible] (citrus canker [illegible]).
1. Remove [illegible] with a cleaner or suitable detergent and rinse with potable water.
2. Use PERACLEAN® 5 at a dilution of [illegible] fl. oz. per 50 gallons of water ([illegible] ppm peroxyacetic acid and [illegible] ppm of hydrogen peroxide) as a general sanitizing coarse spray.
3. [illegible] sanitize [illegible] surface for at least one minute.
4. Allow to air dry, do not rinse.

**DEPARTMENT OF HEALTH & HUMAN SERVICES**

Public Health Service

Food and Drug Administration
College Park, MD 20740

December 1, 2010

Tiana Rosamilia
Evonik Degussa Corporation
6346 Freedom Ave.
Sykesville, MD 21784

Re: Food Contact Substance Notification FCN 001025

Dear Ms. Rosamilia:

This is in reference to your notification for the food-contact substance and use described as follows:

Food Contact Substance (FCS)
An equilibrium mixture of peroxyacetic acid, hydrogen peroxide and acetic acid stabilized with dipicolinic acid.

Notifier
Evonik Degussa Corporation

Manufacturer/supplier
Evonik Degussa Corporation

Intended Use
As an antimicrobial agent to control microbial growth in wash and chilling water that contacts fruits and vegetables that are not raw agricultural commodities.

Limitations/Specifications
The additive will be used in process water such that the level of hydrogen peroxide will not exceed 117 ppm, the level of peroxyacetic acid will not exceed 80 ppm and the level of dipicolinic acid will not exceed 0.25 ppm.

This is to inform you that as of December 28, 2010, FCN 01025 will become effective. It will be added to the list of effective notifications for food contact substances available on the agency's internet site in the *Ingredients and Packaging* section under the *Food* topic of www.fda.gov

The Agency has determined under 21 CFR 25.32(q) that this action is of a type that does not individually or cumulatively have a significant effect on the human environment. Therefore, neither an environmental assessment nor an environmental impact statement is required.

This effective notification is applicable only to an equilibrium mixture of peroxyacetic acid, hydrogen peroxide and acetic acid stabilized with dipicolinic acid manufactured by Evonik Degussa Corporation and is limited to the use of the food contact substance identified above. You should inform the agency of any modification in the food-contact substance

limitations/specifications given in the notification or of any alteration in the manufacturing process that would result in a change in the impurities in the food-contact substance. Such changes may require submission of a new notification.

The existence of an effective notification for a food-contact substance does not relieve use of the subject substance from compliance with any other provision of the Federal Food, Drug, and Cosmetic Act (FFDCA) or with Title 21 CFR §174.5 *General provisions applicable to indirect food additives*. For example, in accordance with section 402(a)(3) of the Act, use of the food contact substance should not impart odor or taste to food rendering it unfit for human consumption. If new data or information become available to FDA demonstrating that the intended use of the food contact substance is no longer safe, the agency will inform you of its determination that the intended use of the food contact substance is no longer safe. In addition, if you become aware of data that raise questions about the safety of the intended use of the food contact substance, you should notify the agency immediately and be prepared to supply data necessary to resolve the questions.

Section 301(ll) of the FFDCA prohibits the introduction or delivery for introduction into interstate commerce of any food that contains a drug approved under section 505 of the FFDCA, a biological product licensed under section 351 of the Public Health Service Act or a drug or biological product for which substantial clinical investigations have been instituted and their existence has been made public, unless one of the exemptions in section 301(ll)(1)-(4) applies. In our review of this notification, FDA did not consider whether section 301(ll) or any of its exemptions apply to the intended use of the food-contact substance. Accordingly, allowing this FCN to become effective should not be construed as a statement that the intended use of the food-contact substance would not violate section 301(ll).

If you have any further questions concerning this matter, please do not hesitate to contact us.

Sincerely,

Mark Hepp
Division of Food Contact Notifications, HFS-275
Office of Food Additive Safety
Center for Food Safety
and Applied Nutrition

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

January 28, 2011

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

TIANA M. ROSAMILIA
EVONIK DEGUSSA CORPORATION
379 INTERPACE PARKWAY, PO Box 677
PARSIPPANY, NJ 07054-0677

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 10-JAN-11. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

**DEPARTMENT OF HEALTH & HUMAN SERVICES** Public Health Service

Food and Drug Administration
College Park, MD 20740

December 1, 2010

Tiana Rosamilia
Evonik Degussa Corporation
6346 Freedom Ave.
Sykesville, MD 21784

Re: Food Contact Substance Notification FCN 001025

Dear Ms. Rosamilia:

This is in reference to your notification for the food-contact substance and use described as follows:

Food Contact Substance (FCS)
An equilibrium mixture of peroxyacetic acid, hydrogen peroxide and acetic acid stabilized with dipicolinic acid.

Notifier
Evonik Degussa Corporation

Manufacturer/supplier
Evonik Degussa Corporation

Intended Use
As an antimicrobial agent to control microbial growth in wash and chilling water that contacts fruits and vegetables that are not raw agricultural commodities.

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The additive will be used in process water such that the level of hydrogen peroxide will not exceed 117 ppm, the level of peroxyacetic acid will not exceed 80 ppm and the level of dipicolinic acid will not exceed 0.25 ppm.

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The Agency has determined under 21 CFR 25.32(q) that this action is of a type that does not individually or cumulatively have a significant effect on the human environment. Therefore, neither an environmental assessment nor an environmental impact statement is required.

This effective notification is applicable only to an equilibrium mixture of peroxyacetic acid, hydrogen peroxide and acetic acid stabilized with dipicolinic acid manufactured by Evonik Degussa Corporation and is limited to the use of the food contact substance identified above. You should inform the agency of any modification in the food-contact substance

limitations/specifications given in the notification or of any alteration in the manufacturing process that would result in a change in the impurities in the food-contact substance. Such changes may require submission of a new notification.

The existence of an effective notification for a food-contact substance does not relieve use of the subject substance from compliance with any other provision of the Federal Food, Drug, and Cosmetic Act (FFDCA) or with Title 21 CFR §174.5 *General provisions applicable to indirect food additives*. For example, in accordance with section 402(a)(3) of the Act, use of the food contact substance should not impart odor or taste to food rendering it unfit for human consumption. If new data or information become available to FDA demonstrating that the intended use of the food contact substance is no longer safe, the agency will inform you of its determination that the intended use of the food contact substance is no longer safe. In addition, if you become aware of data that raise questions about the safety of the intended use of the food contact substance, you should notify the agency immediately and be prepared to supply data necessary to resolve the questions.

Section 301(ll) of the FFDCA prohibits the introduction or delivery for introduction into interstate commerce of any food that contains a drug approved under section 505 of the FFDCA, a biological product licensed under section 351 of the Public Health Service Act or a drug or biological product for which substantial clinical investigations have been instituted and their existence has been made public, unless one of the exemptions in section 301(ll)(1)-(4) applies. In our review of this notification, FDA did not consider whether section 301(ll) or any of its exemptions apply to the intended use of the food-contact substance. Accordingly, allowing this FCN to become effective should not be construed as a statement that the intended use of the food-contact substance would not violate section 301(ll).

If you have any further questions concerning this matter, please do not hesitate to contact us.

Sincerely,

Mark Hepp
Division of Food Contact Notifications, HFS-275
Office of Food Additive Safety
Center for Food Safety
and Applied Nutrition

# PRIA 2 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

3/23/09

21 Day Screen Start Date: 2-3-11 Release Date

Experts In-Processing Signature: MF Harrington Date 2-4-11 Fee Paid: Yes ✓

Division management contacted on issues No_____ Yes _____ Date _____

| EPA Reg. Number: 54289-4 | EPA Receipt Date: 2-3-11 |
|---|---|

| | Items for Review | | | Yes | No | N/A* |
|---|---|---|---|---|---|---|
| 1 | **Application Form** (EPA Form 8570-1)(link to form) signed & complete including package type | | | X | | |
| 2 | **Confidential Statement of Formula** all boxes completed, form signed, and dated (EPA Form 8570-4) (Link to form) | | | | | X |
| | a) All inerts (link to http://www.epa.gov/opprd001/inerts/), including fragrances, approved for the proposed uses (see Footnote A) | yes | no | | | |
| 3 | **Certification with Respect to Citation of Data** (EPA Form 8570-34) (Link to form) completed and signed (N/A if 100% repack) | | | X | | |
| | Certificate and data matrix consistent | | | X | | |
| | If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B) | yes | no | | | |
| | If applicable, is there a letter of Authorization for exclusive use only. | | | | | |
| 4 | **Formulator's Exemption Statement** (EPA Form 8570-27) (Link to form) completed and signed (N/A if source is unregistered or applicant owns the technical) | | | | | X |
| 5 | **Data Matrix** (EPA Form 8570-35) (Link to form) both internal and external copies (PR 98-5) (Link to PR 98-5) completed and signed (N/A if 100% repack) | | | X | | |
| | a) Selective Method (Fee category experts use) | yes | no | | | |
| | b) Cite-All (Fee category experts use) | | | | | |
| | c) Applicant owns all data (Fee category experts use) | | | | | |
| 6 | **5 Copies of Label (link to http://www.epa.gov/oppfead1/labeling/lrm/) (Electronic labels on CD are encouraged and guidance is available)( link to** http://www.epa.gov/pesticides/regulating/registering/submissions/index.htm#labels ) | | | X | | |

| | | | | |
|---|---|---|---|---|
| 7 | **Is the data package consistent with PR Notice 86-5** (link to PRN 86-5) | X | | |
| 8 | **Notice of Filing (link to http://www.epa.gov/pesticides/regulating/tolerance_petitions.htm) included with petitions (link to http://www.epa.gov/pesticides/regulating/tolerances.htm)** | | | |
| 9 | **If applicable for conventional applications, reduced risk rationale (link to http://www.epa.gov/opprd001/workplan/reducedrisk.html)** | | | |
| 10 | **Required Data (link to http://www.epa.gov/pesticides/regulating/data_requirements.htm) and/or data waivers. See Footnote C.** | | | |
| | a) List study (or studies) not included with application | | | |

**Comments:**

All studies submitted along with this submission has passed 86-5 Review.

Certification form and Data Matrix forms were missing but the Registrants sent the forms after we contacted.

Hence, 86-5 Review passed and amendment passed.

S:S

MRID-483605

* N/A – Not Applicable

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses. If an unapproved inert is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses **even if a product is currently registered** by consulting the inert Web

site [link to http://www.epa.gov/opprd001/inerts/lists.html] and if the inert is not approved, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient.** Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at inertsbranch@epa.gov and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the Chief of Microbial Pesticides Branch [Link to http://www.epa.gov/oppbppd1/biopesticides/contacts_bppd.htm].

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information [link to http://www.epa.gov/opprd001/inerts/tips.pdf] must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

## Unapproved Inerts Identified on CSFs

### All applications except conventional new products and PIPs

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or

2. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R311, R312 or R313), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or

2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or

2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.

**Script for Rejection Phone calls**

Contact Name: Tiana M. Rosumilia
Phone #: 443-609-4654
Email: tiana.rosamilia@evonik.com

**First Call/Initials:** AB
Date: 02/07/11
Time:

**Second Call/Initials:**
Date:
Time:

This is Aswathy Baker, EPA contractor.

I'm calling regarding your submission in support of Reg # 54287-4.

We have found the following deficiencies regarding:
PR Notice 86.5: Yes or No

Volume/Study Title:

Volume/Study Title:

Volume/Study Title:

Additional volumes continued on back of page: Yes or No

Application Package: Yes or No

* Certification form & Data matrix form is missing

Passed

These deficiencies have been approved by EPA.
The corrections can be faxed to 703-305-5060/Attn: Aswathy Baker.

**Second Call/Email:**
If we do not receive the corrections by _____, we will process your submission, accordingly. Please direct all future calls and correspondence to the appropriate EPA Risk Manager.

# Fax

EVONIK INDUSTRIES

| TO: | FROM: |
|---|---|
| Aswathy Balan | Tiana Rosamilia |
| COMPANY: | DATE: |
| | 07.02.2011 |
| FAX NUMBER: | TOTAL NO. OF PAGES INCLUDING COVER: |
| 703-305-5060 | 26 |
| | SENDER'S REFERENCE NUMBER: |
| | 443-609-4654 |
| RE: | |
| PERACLEAN 15 54289-4 | |

Evonik Degussa Corporation
379 Interpace Parkway
Parsippany, NJ 07054-0677
www.evonik.com/northamerica
Phone +1 443-609-4654
Fax +1 973-541-8040
Tiana.rosamilia@evonik.com

☐ *Urgent* X *For Review* ☐ *Please Comment* ☐ *Please Reply*

Dear Ms. Balan

Here is the Citation of Data and Data Matrices that were requested for 54289-4

Sincerely yours,

Tiana Rosamilia
Product Regulatory Services

This message and any attachments are the property of Evonik Industries and its subsidiaries, are confidential, and may be privileged or otherwise protected from disclosure. This message is intended solely for the use of the addressee. If you receive this message in error, please telephone or e-mail the sender and delete this message and any attachments from your system. If you are not the intended recipient you are strictly prohibited from disclosing, copying, distributing or using any of this information.

**Submission to EPA: Product PERACLEAN 15%(EPA Reg# 54289-4)**

Aswathy Balan to: tiana.rosamilia 02/07/2011 10:40 AM
Cc: Sree Nair
Bcc: Srijana Shrestha

---

Dear Ms. Rosamilia,

This is a follow-up email regarding your Application for Amended Registration of the product PERACLEAN 15%(EPA Reg# 54289-4). We have found some issues regarding your application. The Certification with respect to Citation of Data form (EPA Form 8570-34) and the Data Matrix forms (EPA Form 8570-35, both agency copy and public copy) are missing in your application.

You can send the forms either by fax to 703-305-5060, Attn: Aswathy Balan or email to balan.aswathy@epa.gov. Please call me back at 703-347-8787 if you have any questions.

Thanks,

Aswathy Balan
Macfadden, EPA Contractor
2777 S. Crystal Drive, S4810
Arlington, VA 22202
Ph: 703-347-8787
Fax: 703-305-5060

Bactericidal, VirucidalΔ, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational 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 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled clouded or diluted.

This product is not for use on medical device surfaces.

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 virusesΔ |
|---|---|
| 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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 |
| | |
| | |
| Yersinia enterocolitica ATCC 35669 | |

(OR)
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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning of body fluids, blood and decontamination procedures. Cleaning Proc[illegible]re: Blood and o[illegible] body fluids must be thoroughl[illegible]ed from surfa[illegible] objects before application. Contact Time: HIV-1, HBV, and HCV are inactivated after 1 minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

## STORAGE AND DISPOSAL

Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Nonrefillable 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:**
Triple 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 ¼ 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 times.

**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 lanufill, or by incineration, if allowed by state and local authorities by burning.

EVONIK INDUSTRIES

Manufactured by:
Evonik Degussa Corporation
379 Interpace Parkway, P.O. Box 677
Parsippany, New Jersey 07054-0677

OMRI Listed

# PERACLEAN ® 15 ⓥ

## (PEROXYACETIC ACID SOLUTION)

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

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

## FIRST AID

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

If 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 vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.

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

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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, drinking, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. 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 invertebrates. 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.

### Directions for use

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

### Sanitization

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

FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.

PERACLEAN® 15 peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as $CaCO_3$. This product has demonstrated greater than a 99.999% reduction of survivors after a 30 second exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

### Sanitizing Food Contact Surfaces

Effective against Staphylococcus aureus and Escherichia coli.

Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 0.33 fluid ounce PERACLEAN® 15 dissolved in 5 gallons of water (0.053% 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 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 governing sanitary code. Drain thoroughly. Do not rinse.

### Sanitizing, Eating, Drinking, And Food Prep Utensils

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

### Sanitizing Tableware

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

To insure that the PERACLEAN® 15 sanitizer concentration does not fall below 48 ppm peroxyacetic acid, periodically test the rinse solution with a suitable test kit and adjust the dispensing rate accordingly. Consult your technical service representative for assistance and further information on 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 acid.

### Batch Sanitization (non-food contact surfaces) of Ultra Filtration and Reverse Osmosis (RO) Membranes

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

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

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 prior to sanitizing the membranes with PERACLEAN® 15. Flush the system again with the RO permeate or similar quality water. Prepare an appropriate 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 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 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 reduce residuals.

### Batch Sanitization (NON-FOOD CONTACT SURFACES) of Piping Systems Associated with RO Membranes

Isolate incompatible equipment from piping system. This includes activated carbon filters and ion exchange equipment. Turn off power to ultraviolet light units. Estimate total volume of water contained in the system (tanks, rinse stations and piping). Prepare an appropriate volume of 0.33 to 0.5% PERACLEAN® 15 by adding 0.33 to 0.5 gallons of the product for every 100 gallons of solution prepared. Use RO permeate or similar quality water for dilution. This will provide 554 to 840 ppm peroxyacetic acid and 813 to 1232 ppm hydrogen peroxide. Recirculate the dilute PERACLEAN® 15 solution through the system for a minimum of 4 hours. Process usage valves 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 indicates there is less then 3 ppm peroxygen.

### Continuous/Intermittent addition to minimize the Accumulation of Biological Matter Between Intermittent Sanitizing Episodes in Piping Systems Associated with RO Membranes (non-food contact surfaces)

PERACLEAN® 15, as received or diluted, may be added continuously to the feed water system, between system sanitizing episodes, to aid in minimizing the regrowth/ accumulation of biological matter. The 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 PERACLEAN® 15 or the solution and periodically monitor residual peroxygen so that the desired effect is obtained. For continuous addition, do not exceed 7 ppm (0.33 fluid ounce of product per 440 gallons of water) PERACLEAN® 15. This will give 1 ppm peroxyacetic acid and 1.4 ppm hydrogen peroxide. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounces of product per 100 gallons of water) PERACLEAN® 15. This will give 110 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

### Hard Surface Disinfection

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, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites; housekeeping services; physical therapy departments; 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 buildings, recreational facilities, 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 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 or semi-critical medical devices prior to sterilization or high level disinfection.**

### Combination Disinfection and Cleaning

PERACLEAN® 15 is effective against Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, Trichophyton mentagrophytes, and Escherichia coli O157:H7 at 0.08% (0.5 fl. oz./5 gal.) in hard water (400 ppm as $CaCO_3$) and 5% fetal bovine serum on hard nonporous surfaces. For heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.

PERACLEAN® 15 is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, PERACLEAN® 15 is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel 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 areas which are prone to odors caused by microorganisms.

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

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

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DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

### Poultry Hatchery Disinfection

Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

### Disinfection And Deodorizing of Animal Housing Facilities (Barns, Kennels, Hutches, Etc.)

Do not use in milking stalls, milking parlors, or milk houses (for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

### For Sanitizing of Hatching Eggs

Prepare a solution of PERACLEAN® 15 by diluting 0.33 fluid ounce PERACLEAN® 15 with 5 gallons of water. As eggs are gathered or prior to setting, apply solution as a coarse spray so as to lightly wet all shell surfaces. 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 compatibility before proceeding with its use.

### 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 product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with or after detergent wash.

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 peroxide.

2.Apply the diluted sanitizer solution using a dip or spray directed at the fruits or vegetables. Soaking the fruits and vegetables in the solution. Allow a 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 microorganisms that can cause spoilage

1 Prepare treating solution by diluting 1 5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide

2 Apply the diluted sanitizer solution as a spray or dip Allow a contact time of at least 45 seconds No rinse following application is required This use complies with the requirements of 21 CFR173 315 (a) 5

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

4.Do not reuse solution after treatment

### Bifouling Control in Pulp and Papermill Systems

For use in the manufacture of paper and paperboard intended for food-contact and non-food contact.

PERACLEAN® 15 can be used to control bacteria, fungi, and fresh water 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 influent water streams.

!Contamination with other chemicals could result in product decomposition.

•Add PERACLEAN® 15 at a point in the system where uniform mixing and even distribution will occur.

•Use 0.1 to 0.5 lb. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 per 1000 gallons of 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 as required to maintain control.

### Influent Water Systems:

PERACLEAN® 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 PERACLEAN® 15).

### Mill Process Waters:

•Continuous Feed – PERACLEAN® 15 should be fed continuously at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 15). This range is equivalent to 0.13 to 13 lbs. PERACLEAN® 15 per ton (dry basis) of pulp or paper produced.

•Intermittent Feed – PERACLEAN® 15 should be fed intermittently (6 to 8 times per day) at dosages ranging from 10 to 975 ppm peroxyacetic acid (65 to 6500 ppm PERACLEAN® 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 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 CONTACT DISPERSED PIGMENTS

PERACLEAN® 15 can be used in the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and diatomaceous earth used in paint and paper production.

Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of pigment slurry. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

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

•Severely fouled 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 PRESERVATION

Not for use in manufacture of material intended for food contact.

PERACLEAN® 15 can be used as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper coatings.

Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of preservative. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

### 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, Byssochlamys fulva, Pediococcus damnosus, Lactobacillus buchneri, and Saccharomyces cerevisiae

1 Prepare PERACLEAN® 15 solution by adding 9.85 fl oz to 5 gallons potable water. This provides 2,032 ppm peroxyacetic acid

2 Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period

3 Allow containers to drain thoroughly, and then rinse with sterile or potable water.

EVONIK INDUSTRIES

Manufactured by:
Evonik Degussa Corporation
379 Interpace Parkway, P.O. Box 677
Parsippany, New Jersey 07054-0677

OMRI Listed

Bactericidal, Virucidal∆, 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, shelves, racks, carts, refrigerators, 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, chrome, 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; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational 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 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 pre-clean or decontaminate 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 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 wet for 1 minute to kill bacteria, viruses, and fungi 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 Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled clouded or diluted.

This product is not for use on medical device surfaces.

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 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 diarrhea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories) |
| 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 viruses∆ |
| 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 | |

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(OR)
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 Immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.
Special Instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning of body fluids, blood and decontamination procedures. Cleaning Pro e: Blood and body fluids must be thoroughly ned from surf and objects before application. Contact Time: HIV-1, HBV, and HCV are inactivated after 1 minute of contact.
Infectious material: Blood and other bodily fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

## STORAGE AND DISPOSAL

Storage and Disposal
Do not contaminate water, food, or feed by storage and disposal.
**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal 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 guidance.
**CONTAINER DISPOSAL:** Nonrefillable 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:**
Triple 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 ¼ 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 times.

**Containers greater than 5 gallons:**
Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 by state and local authorities by burning.

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**Pages 206-210 - *Confidential Statements of Formula may be entitled to confidential treatment***