

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



United States  
Environmental Protection  
Agency

Office of Pesticide Programs

Evonik Degussa Corporation  
375 Interpace Parkway  
P.O. Box 677  
Parsippany, N. J. 07054-0677

JUN 15 2011

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.

284

Page 2  
EPA Registration No. 54289-4

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







**NON-FOOD CONTACT SURFACES) OF PIPES AND WITH RO MEMBRANES**  
 on exchange from piping system. This includes activated carbon equipment. Turn off power to ultraviolet lamps. Prepare an appropriate volume of 0.33 to 0.5% solution by adding 0.33 to 0.5 gallons of the product for every gallon prepared. Use RO permeate or similar quality water to fill the system. Saturate surfaces with a 0.09% (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.

# PERACLEAN® 15

## (PEROXYACETIC ACID SOLUTION)

### SANITIZER/DISINFECTANT DEVELOPED FOR THE FOLLOWING USES:

<b>Institutional/Industrial Sanitizing of Previously Cleaned Non-Porous Food Contact Surfaces in:</b>	<b>Hard Surface Disinfection In:</b>	<b>Bacteria, Fungi, and Slime Control In:</b>	<b>Active Ingredients:</b>
•Dairies •Wineries •Breweries •Food and Beverage Plants •Disinfecting Poultry Premises •Poultry Hatcheries •Animal Housing Facilities •Reverse Osmosis Membranes and Ultra Filtration	•Hospitals •Health Care Facilities •Schools •Colleges •Veterinary Clinics •Animal Life Science Laboratories •Industrial Facilities •Office Buildings •Recreational Facilities •Retail and Wholesale Establishments	•Pulp and Paper Mill Systems •Dispersed Pigments •Cooling Water Systems •Coatings Preservation	Hydrogen Peroxide 22.0% Peroxyacetic Acid 15.0% Inert Ingredients 63.0%  Total: 100% Net contents as stated on container

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 into ground. This product is a sewer system without previously notifying the local sewerage treatment plant authority. For guidance contact your State Water Board or Regional Office of the U.S. Environmental Protection Agency.

#### 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. 54889-A

**EVONIK**  
INDUSTRIES

Manufactured by:  
Evonik Degussa Corporation  
379 Interpace Parkway, P.O. Box 677

**OMRI**

1111  
 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. Clean, pulpers, the white water loop and white water storage systems and inflow 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.

#### DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARN, 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 0.09% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all rollers, 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 SMITING 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 ounce 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 rinses following application is required. This use complies with the requirements of 21 CFR 173.315 (a) 5  
 3. The treated produce can be drain dried without a potable water rinse.  
 4. Do not reuse solution after treatment.

#### FOR THE TREATMENT OF PRE-COOLING OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS

To reduce the number of non-pathogenic beverage spoilage organisms, *Escherichia coli*, *Aspergillus versicolor*, *Ascoschlamyces fulva*, *Pedococcus danmorus*, *Lactobacillus buchneri*, and *Saccharomyces cerevisiae*.  
 1. Prepare PERACLEAN® 15 solution by adding 9.85 fl. oz. to 5 gallons of potable water. This provides 2.632 ppm peroxyacetic acid.  
 2. Apply multi-nozzle 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.

BEFORE 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 stock water systems. Suitable dosing points include but are not limited to: influent chutes, pulpers, the white water loop and white water storage systems and inflow 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.

#### MILL 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 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

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 100 lbs. of preservative. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

#### ANTIMICROBIAL FINISH OF PRE-COOLING OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS

To reduce the number of non-pathogenic beverage spoilage organisms, *Escherichia coli*, *Aspergillus versicolor*, *Ascoschlamyces fulva*, *Pedococcus danmorus*, *Lactobacillus buchneri*, and *Saccharomyces cerevisiae*.  
 1. Prepare PERACLEAN® 15 solution by adding 9.85 fl. oz. to 5 gallons of potable water. This provides 2.632 ppm peroxyacetic acid.  
 2. Apply multi-nozzle 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.

484