

81073-3

5/27/2009

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510C)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number: 81073-3

Date of Issuance: MAY 27 2009

Term of Issuance:

Name of Pesticide Product: Peridox RTU

NOTICE OF PESTICIDE:

- x Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Clean Earth Technologies, Inc.
13378 Lakefront Drive
St. Louis, MO 63045

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
a. Add the phrase "EPA Registration Number 81073-3."

Signature of Approving Official:

Marshall Swindell
Product Manager-33
Regulatory Management Branch I
Antimicrobials Division (7510P)

Date:

MAY 27 2009

3. Revise the Precautionary labeling as follows:

Hazards to Humans and Domestic Animals:

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles or face shield). Harmful if swallowed. Wash Thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

4. Revise the "First Aid Statements" to read as follows:

If in eyes:

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

If swallowed:

Call a poison control center or doctor immediately for treatment advice  
Have person sip a glass of water if able to swallow.  
Do not induce vomiting unless told to by a poison control center or doctor.  
Do not give anything to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For emergency information on [product, use, etc.], call the National Pesticides Information Center at 1-800-858-7378, 6:30 am to 4:30 pm Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

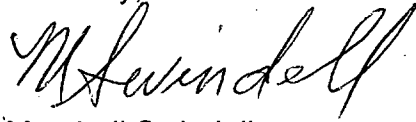
4. Submit three copies of the final printed label prior to releasing this product for sale.

The Confidential Statement of Formula dated May 14<sup>th</sup>, 2009, is acceptable.

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 label is enclosed for your records.

Sincerely,



Marshall Swindell  
Product Manager 33  
Regulatory Branch I  
Antimicrobials Division (7510P)

Enclosure: (Stamped Labeling)

MASTER LABEL

# PeridoxRTU™

{one or more of the following will be selected:}

[disinfectant] [sanitizer] [microbicide] [virucide] [fungicide] [sporicidal disinfectant]  
[antimicrobial solution] [mold killing antimicrobial solution]

ACTIVE INGREDIENTS:

Hydrogen Peroxide ..... 4.4 %  
Peroxyacetic Acid ..... 0.23 %  
Other Ingredients ..... 95.37 %  
Total 100.0%

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 27 2009

Under the Pesticide Act as  
Enacted, this product is  
classified as  
No.

KEEP OUT OF REACH OF CHILDREN

**DANGER PELIGRO**

81073-3

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

<b>FIRST AID</b>	
<b>IF IN EYES</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing. Call a poison control center or physician for treatment advice.
<b>IF SWALLOWED</b>	Call a poison control center or physician for advice immediately after swallowing. Have a person sip glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or physician. Do not give anything by mouth to an unconscious person.
Have the product container with you when calling a poison control center or going for treatment.	
<b>FOR EMERGENCY MEDICAL INFORMATION CALL TOLL FREE: 1-800-222-1222</b>	
(800) 900-4044 Poison Control Center (human health)	
(800) 345-4735 ASPCA (animal health)	
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.	

Manufactured by: **Clean Earth Technologies, LLC**  
13378 Lakefront Drive  
St. Louis, MO 63045  
USA

EPA Reg. No. 81073-  
EPA Est. No. [pending]

Net Contents:

™ trademark of Clean Earth Technologies, LLC, Earth City, MO, USA  
Patents pending  
{lot code and expiration date may appear on container or label}

{Note to reviewer: All text in brackets [...] is optional and may or may not be included on the final label. All text in {...} is administrative and will not appear on a final label. Portions or all of the label may be bilingual.}

[CLAIMS]

For disinfection of hard, nonporous surfaces

For sanitizing rinse on previously cleaned hard, non-porous [non-food] food-contact surfaces

For sanitizing hard, non-porous surfaces

[ADDITIONAL CLAIMS]

Cleaning and deodorization; eliminate odors associated with bacteria, mold, mildew; prevent mold and mildew stains and odors.

MOLD CONTROL:

To kill *Aspergillus niger* on hard, non-porous surfaces such as floors, tabletop, benchtops, drain troughs, drip pans, desks, locker room benches, and hard, non-porous bath mats (e.g., rubber or plastic).

Used to treat porous surfaces such as wood, tile grout, drywall, ceiling tile, carpets, upholstery cubical walls, wallpaper, posting boards in buildings and offices to kill mold.

Will not damage most surfaces.

Disinfectant for Surfaces in Pharmaceutical and Cosmetic Processing Facilities

Disinfectant for Non-patient Contact for Healthcare and Veterinary Facilities

Sporicidal disinfectant to kill *Clostridium difficile* on hard non-porous inanimate surfaces

Virucidal on hard non-porous inanimate surfaces

Combination Disinfection & Cleaning on hard non-porous inanimate surfaces

Tuberculocidal on hard non-porous inanimate surfaces

Delivers antimicrobial activity on yeast, mildew, molds, fungi, viruses, and bacteria as identified in the Organism [Table] [Chart] below and for uses and in sites as specified in the following directions for use.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 27 2009

Under the authority of the Administrator,  
EPA Region 4, Atlanta, Georgia, the following  
action is hereby taken:  
to:

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{Claims on this page are optional and may appear on any label panel.}

{Sporicidal claims}

Helps reduce [C. diff] [C. difficile] [Clostridium difficile] spores [and] [MRSA] [CA-MRSA] [VRE] [PRSP] [and] [blood-borne pathogens] occurrence [on surfaces]!

Kills [more than] 99.9999% [C. difficile] [Clostridium difficile] [spores] in 7 [minutes] [min]!

Sporicidal disinfectant, Virucidal, Bactericidal, Fungicidal, and Tuberculocidal.

Kills [bacteria] [fungal spores] [mold] [TB] [viruses] on surfaces.

Kills [bacteria] [fungi] [spores] [viruses].

[Kills] [Eliminates] [C. difficile] [Clostridium difficile] spores [and] [MRSA].

{Fungicidal and Mold Control claims}

PeridoxRTU™ [mold-killer] [mildew-cide] kills [Aspergillus niger] mold spores.

PeridoxRTU™ fungicide kills [Aspergillus niger] [and] [Trichophyton mentagrophytes] [(athlete's foot fungus)] on hard surfaces in 1 minute.

{General efficacy claims}

Can help reduce the risk of cross contamination on treated surfaces.

[Cleans], [Disinfects] and [Deodorizes]

C. difficile spore disinfection in 7 minutes.

MRSA disinfection in 2 minutes.

PeridoxRTU™ [Microbicide] [Disinfectant] [Sanitizer] [Bactericide] [Sporicidal Disinfectant] [Virucide] [ is effective against the following the following organisms at the following contact times: {insert organism name and contact time from the Organism chart as appropriate to "Microbicide", "Disinfectant", "Sanitizer", "Bactericide", or Virucide"}]

Disinfects [against] [organism] in [just] 2 minutes.

Disinfects hard, non-porous [environmental] surfaces listed on this label.

[Kills] [Sanitizes] S. aureus and K. pneumoniae in 30 seconds.

[Kills] [Sanitizes] E. coli and S. aureus on pre-cleaned, non-porous, food-contact surfaces in 30 seconds.

Powerful enough to [disinfect] [sanitize].

{General claims}

Does not contain bleach. Does not contain alcohol.

Bleach free. Alcohol free.

No [annoying] [discomforting] bleach odor.

[Clean] [fresh] [apple] [floral] [ocean] [ocean-fresh] [scent] [smell].

PeridoxRTU™ [Microbicide] [Disinfectant] [Sporicidal Disinfectant] is ready-to-use.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 27 2009  
Under the Fungicide, Virucide, Bactericide, and Tuberculocidal Act as  
regulated under FIFRA, Reg. No.

81073-3

Effective against a wide range of viruses, bacteria and fungi, including:

DISINFECTANT	SANITIZER
<p><b><u>Bactericidal (2 minutes)</u></b>  <i>Enterobacter aerogenes</i> (ATCC 13048)  <i>Listeria monocytogenes</i> (ATCC 19111)  <i>Pseudomonas aeruginosa</i> (ATCC 15442)  <i>Salmonella typhimurium</i> (ATCC 13311)  <i>Staphylococcus aureus</i> (ATCC 6538)  <i>Vibrio cholerae</i> (ATCC 14035)  <i>Salmonella enterica</i> (ATCC 10708)  <i>Acinetobacter baumannii</i> (ATCC 19606)  <i>Campylobacter jejuni</i> (ATCC 29428)  <i>E. coli</i> O157:H7 (ATCC 35150)  <i>E. coli</i> ESBL (ATCC BAA-196)  <i>Enterococcus faecalis</i>-Vancomycin Resistant (VRE) (ATCC 51299)  <i>Enterococcus irae</i> (ATCC 10541)  <i>Haemophilus influenzae</i> (ATCC 19418)  <i>Klebsiella pneumoniae</i> (ATCC 4352)  <i>Legionella pneumophila</i> (ATCC 33153)  <i>Proteus vulgaris</i> (ATCC 27973)  <i>Serratia marcescens</i> (ATCC 13880)  <i>Shigella sonnei</i> (ATCC 11060)  <i>Staphylococcus aureus</i> -MRSA (ATCC 33592)                      Community Acquired- <i>Staphylococcus aureus</i> (CA-MRSA) (Genotype 300)  <i>Streptococcus pneumoniae</i>- Penicillin Resistant (PRSP) (ATCC 700671)  <i>Streptococcus pyogenes</i> (ATCC 19615)</p> <p><b><u>Tuberculocidal (10 minutes)</u></b>  <i>Mycobacterium bovis</i></p> <p><b><u>Viricidal (2 minutes)</u></b>                      Avian Influenza A (H3N2) (ATCC VR-2072)                      Human Coronavirus (ATCC VR-740)                      Adenovirus, Type 2 (ATCC-846)                      Avian influenza H5N1 (NIBRG-14)                      Herpes simplex, Type 1 (ATCC VR 260)                      Herpes simplex, Type 2 (ATCC VR 734)                      Influenza A (ATCC VR 544)                      Influenza B (ATCC VR 823)                      Norovirus (F. Calicivirus) (ATCC VR 782)                      Poliovirus type-1 (ATCC VR 1562)                      Reovirus (ATCC VR 232)</p>	<p><b>(30 seconds on <u>hard, inanimate non-food contact surfaces:</u></b>  <i>Staphylococcus aureus</i> (ATCC 6538)  <i>Klebsiella pneumoniae</i> (ATCC 4352)</p> <p><b>(30 seconds on <u>pre-cleaned, food contact surfaces:</u></b>  <i>Escherichia coli</i> (ATCC 6538)  <i>Staphylococcus aureus</i> (ATCC 11229)</p> <p style="text-align: center;"><b>ACCEPTED with COMMENTS in EPA Letter Dated:</b></p> <p style="text-align: center;"><b>MAY 27 2009</b>                      Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended through 1990, this registration is hereby approved. Reg. No.</p> <p style="text-align: center; font-size: 2em;">81073-3</p>

<p>Respiratory syncytial virus (RSV) (ATCC VR-26) Rotavirus (Strain WA)</p> <p><b><u>Sporicidal Activity of Disinfectant (7 minutes)</u></b> <i>Clostridium difficile</i> spores (ATCC 700792)</p> <p><b><u>Fungicidal/Mold Killing</u></b> <b><u>(1 minute hard surfaces)</u></b> <i>Aspergillus niger</i> (ATCC 16404) <i>Candida albicans</i> (ATCC 10231) <i>Trichophyton mentagrophytes</i> (athlete's foot fungus) (ATCC 9533)</p> <p><b><u>Mold-killing</u></b> <b><u>(10 minute) Porous Surfaces</u></b> <i>Aspergillus niger</i></p>	<p>ACCEPTED with COMMENTS in EPA Letter Dated: <b>MAY 27 2009</b></p> <p>Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended by the FIFRA reauthorization legislation, No. 81073-3</p>
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{Note to administrator: other formats may be used to depict the information in this table.}

{Note to reviewer: All text in brackets [...] is optional and may or may not be included on the final label. All text in {...} is administrative and will not appear on a final label. Portions or all of the label may be bilingual.}

Disinfectant for use on hard, non-porous surfaces in: {sites will be selected from the following} Hospitals and Health Care Facilities such as Clinics, Dental Offices, Hospices, Hospitals, Laboratories, Nursing Homes, Physical Therapy, Physician's Offices, Radiology, Rehabilitation, and Transport Vehicles, Critical Care Areas such as Critical Care Unit (CCU), Emergency Room, ICU, Neonatal Intensive Care Unit (NICU), Operating Room, Pediatric Intensive Care Unit (PICU), Surgery, and Emergency Medical Services, and Other Sites such as Schools, Colleges, Correctional Facilities, Hospitality Establishments such as Hotels, Motels, Cruise Ships, Veterinary Clinics, Animal Life Science Laboratories, Funeral Homes and Morgues, Research Laboratories, Industrial Facilities, Pharmaceutical Production Facilities, Cosmetic Processing Facilities, Consumer Home Use, Dining Areas (non-food contact surfaces), Office Buildings, Recreational Facilities, Retail and Wholesale Establishments, Prisons, Animal Care Facilities, Veterinary Facilities, Farms, Livestock Quarters, Poultry Premises, Poultry Houses and Hatcheries, and vehicles including ships, planes, automobiles, trucks, ambulances, trains, and farm vehicles.

Hospital, Healthcare, and Critical Use Sites: [May be used on hard non-porous surfaces of] {sites will be selected from the following} autoclaves, bed railings, blood glucose monitors, cabinets, carts, chairs, counters, exam tables, gurneys, isolettes, infant incubators and care cribs, IV poles, phlebotomy trays, PVC tubing, stethoscopes, stretchers, tables, bathrooms, sinks, faucets, toilet seats [and rims], towel dispensers, hand railings, stall doors, bath tubs, showers, hampers, tiled walls, telephones, door knobs, vanities, floors, non-porous shelves, and display cases.

Hard non-porous external surfaces of: {sites will be selected from the following} ambulance equipment, diagnostic equipment, dialysis machines, mammography equipment, patient monitoring equipment, respiratory equipment, ultrasound transducers and probes, patient support and



delivery equipment. [PeridoxRTU™ solution [is compatible with] [will not harm] {surfaces will be selected from the following} aluminum, LDPE, HDPE, vinyl, painted surfaces, polycarbonate, polypropylene, polyurethane varnish, PVC, silicone rubber, stainless steel, medical tubing, vinyl rubber, acrylic, brass, LCD screens, copper, Corian®, glass, laminate flooring and countertops, nickel, polycarbonate, glazed porcelain, glass, and glazed tile.]

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**PHYSICAL AND CHEMICAL HAZARDS:** This product contains an oxidizing agent. Avoid contact with other sanitizers, cleaners or organic substances.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to birds, fish and aquatic invertebrates. 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 appropriate dilution. For guidance contact your State Water Board or Regional Office of the U.S. Environmental Protection Agency.

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:**

**MAY 27 2009**

Under the Federal Insecticide,  
Fungicide and Rodenticide Act as  
amended by the amendments,  
registered under EPA Reg. No.

81073-3

ACCEPTED  
with COMMENTS  
in [ ] Dated:

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MAY 27 2009

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended by the FIFRA  
reauthorized and amended Act

810733

## DIRECTIONS FOR USE

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

PeridoxRTU™ microbicide can be used for disinfection, sterilization, sanitization, mold killing and remediation, mold and mildew control. This product must be used only as directed in this label.

Before using this product read the entire label.

PeridoxRTU™ solution can be applied to, hard, non-porous surfaces such as counter-tops, tables, furniture, cabinets, appliances, kitchen and bathroom fixtures, furnishings, hardware, floors, walls, equipment, tabletop, benchtops, drip pans, troughs, desks, [and] locker room benches[, and the use sites listed above]. For heavily soiled areas, a preliminary cleaning is required. To apply the PeridoxRTU™ solution the “ready-to-use” PeridoxRTU™ solution is applied to the contaminated surface with a spray applicator device at an application rate of greater than 50 ml/m<sup>2</sup> (approximately 1.5 fluid oz of the “ready-to-use” PeridoxRTU™ solution per square yard), or other means that ensures that the surface is wet (for example, wiping with a clean cloth or sponge that is wet with PeridoxRTU™ solution), or by soaking the contaminated surface and permitted to remain on the surface the indicated contact time. Spray or soak the surface with a sufficient amount of PeridoxRTU™ solution to remain on surface for the indicated contact time before evaporation. Air dry or remove with a dry clean cloth or wipe.

## DISINFECTION

Use PeridoxRTU™ [solution] [disinfectant] in Hospitals, Surgical and Obstetrical Suites, Housekeeping Services, Physical Therapy Departments, Nursing Services, [and] Autopsy Facilities[, and the use sites listed above].

Use PeridoxRTU™ [solution] [disinfectant] in nursing homes, health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, dining areas (non-food contact surfaces), office buildings, recreational facilities, retail and wholesale establishments[, and the use sites listed above].

Use PeridoxRTU™ [solution] [disinfectant] in transport vehicles including ships, planes, automobiles, trucks, trains, and EMS.

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.]

## **Combination Disinfection and Cleaning:**

PeridoxRTU™ [solution] [disinfectant] is effective against *Staphylococcus aureus*, *Salmonella enterica*, *Enterobacter aerogenes*, *Salmonella typhimurium*, *Listeria monocytogenes*, *Vibrio cholerae*, and *Pseudomonas aeruginosa* [and other bacteria listed in the Chart] when used at full strength (4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid) and a 5% organic load on hard nonporous surfaces. For heavily soiled areas a pre-cleaning step is required.

Apply PeridoxRTU™ solution with a spray applicator device, or other means that ensures that the surface is wet, or soak to wet all surfaces thoroughly. Allow surfaces to remain wet for **2 minutes**; then, remove solution and entrapped soil with a dry clean cloth. If the PeridoxRTU™ solution becomes soiled (i.e., is not visibly clear) or diluted, replace and use fresh PeridoxRTU™ solution.

**Virucidal.** PeridoxRTU™ [solution] [virucide] is effective against [the viruses listed in the Chart][, which include] Avian Influenza A (H3N2), Reovirus, and Human Coronavirus on hard, nonporous inanimate surfaces when used at full strength (4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid) with a **2 minute** contact time in the presence of a 5% organic load. For heavily soiled areas a pre-cleaning step is required. Apply PeridoxRTU™ solution with a spray applicator device, or other means that ensures that the surface is wet, or soak to wet all surfaces thoroughly. Allow surfaces to remain wet for **2 minutes**; then, remove solution and entrapped soil with a dry, clean cloth. If the PeridoxRTU™ solution becomes soiled (i.e., is not visibly clear) or diluted, replace and use fresh PeridoxRTU™ solution.

**Fungicidal.** PeridoxRTU™ [solution] [fungicide] can be used on hard nonporous inanimate surfaces such as shower room floors, shower stalls, locker room benches, and hard, non-porous bath mats (plastic or rubber). At full strength (4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid), this product is effective against *Trichophyton mentagrophytes* (Athletes Foot Fungi), *Aspergillus niger* (mold), and *Candida albicans* (pathogenic yeast) in the presence of a 5% organic load with a **1 minute** contact time. For heavily soiled areas a pre-cleaning step is required. Apply PeridoxRTU™ solution with a spray applicator device, or other means that ensures that the surface is wet, or soak to wet all surfaces thoroughly. Allow surfaces to remain wet for **1 minute**; then, remove solution and entrapped soil with a dry, clean cloth. If the PeridoxRTU™ solution becomes soiled (i.e., is not visibly clear) or diluted, replace and use fresh PeridoxRTU™ solution.

**Sporicidal Disinfectant.** PeridoxRTU™ [solution] [sporicidal disinfectant] [disinfectant] is effective against *Clostridium difficile* spores on hard, nonporous inanimate surfaces when used at full strength (4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid) with a **7 minute** contact time in the presence of a 5% organic load. Apply PeridoxRTU™ solution with a spray applicator device, or other means that ensures that the surface is wet, or soak to wet all surfaces thoroughly. Allow surfaces to remain wet for **7 minutes**; then, remove solution and entrapped soil with a dry, clean cloth. If the PeridoxRTU™ solution becomes soiled (i.e., is not visibly clear) or diluted, replace and use fresh PeridoxRTU™ solution.

Personal Protection: Wear appropriate barrier protection such as gloves, gowns, masks or eye covering.

Cleaning Procedure: Fecal matter/waste must be thoroughly cleaned from surfaces/objects before disinfection by application with a clean cloth, mop, and/or sponge saturated with the disinfectant product. Cleaning is to include vigorous wiping and/or scrubbing, until all visible soil is removed. Special attention is needed for high-touch surfaces. Surfaces in patient rooms are to be cleaned in an appropriate manner, such as from right to left or left to right, on horizontal surfaces, and top to bottom, on vertical

ACCEPTED  
with COMMENTS  
in EPA Label Database

MAY 27 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, this product is registered under EPA Reg. No. 8073-3

surfaces, to minimize spreading of the spores. Restrooms are to be cleaned last. Do not reuse soiled cloths.

Infectious Materials Disposal: Materials used in the cleaning process that may contain feces/wastes are to be disposed of immediately in accordance with local regulations for infectious materials disposal.”

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.]

**Tuberculocidal.** PeridoxRTU™ microbicide is also effective against *Mycobacterium bovis* on hard nonporous inanimate surfaces when used at full strength (4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid) with a 10 minute contact time in the presence of a 5% organic load. For heavily soiled areas a pre-cleaning step is required. Apply PeridoxRTU™ solution with a spray applicator device, or other means that ensures that the surface is wet, or soak to wet all surfaces thoroughly. Allow surfaces to remain wet for 10 minutes; then, remove solution and entrapped soil with a dry clean cloth. If the PeridoxRTU™ solution becomes soiled (i.e., is not visibly clear) or diluted, replace and use fresh PeridoxRTU™ solution.

**Disinfection of Surfaces in Pharmaceutical and Cosmetic Processing Facilities.** PeridoxRTU™ microbicide is recommended for use on hard, non-porous, environmental surfaces such as floors, walls and processing equipment in pharmaceutical and cosmetic processing facilities. It is effective against *Staphylococcus aureus*, *Salmonella enterica*, *Enterobacter aerogenes*, *Salmonella typhimurium*, *Listeria monocytogenes*, *Vibrio cholerae*, and *Pseudomonas aeruginosa* [and other bacteria listed in the Chart] when used at full strength (4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid) and 5% blood serum. For heavily soiled areas a pre-cleaning step is required. Apply PeridoxRTU™ solution with a spray applicator device, or other means that ensures that the surface is wet, or soak to wet all surfaces thoroughly with a contact time of 2 minutes. Rinse with sterile water. Remove solution and entrapped soil with a dry, clean cloth. Air dry. If the PeridoxRTU™ solution becomes soiled (i.e., is not visibly clear) or diluted, replace and use fresh PeridoxRTU™ solution.

**Disinfectant for Farm Premises**

PeridoxRTU™ [solution] [disinfectant] is recommended for use on hard, non-porous, environmental surfaces such as floors, walls, troughs, racks, appliances, and processing equipment on Farm Premises. It is effective against *Staphylococcus aureus*, *Salmonella enterica*, *Enterobacter aerogenes*, *Salmonella typhimurium*, *Listeria monocytogenes*, *Vibrio cholerae*, and *Pseudomonas aeruginosa* [and other bacteria listed in the Chart] when used at full strength (4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid), and 5% blood serum. For heavily soiled areas a precleaning step is required. Apply PeridoxRTU™ solution with a spray applicator device, or other means that ensures that the surface is wet, or soak to wet all surfaces thoroughly with a contact time of 2 minutes. Rinse with clean water. Remove solution and entrapped soil with a dry, clean cloth. Air dry. If the PeridoxRTU™ solution

ACCEPTED  
with COMMENTS  
in EA  
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becomes soiled (i.e., is not visibly clear) or diluted, replace and use fresh PeridoxRTU™ solution.

Remove all animals and feed from premises, vehicles, and enclosures.

Remove all litter and manure 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 appliances.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

Thoroughly clean all surfaces with soap or detergent and rinse with water.

MAY 27 2009  
Under the Pesticide  
Registration Act as  
revised under FIFRA, No. 81073-3

Thoroughly wet all surfaces with the recommended disinfecting solution for a period of 2 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.

**Disinfectant for Poultry Houses and Poultry Hatcheries**

PeridoxRTU™ [solution] [disinfectant] is recommended for use on hard, non-porous, environmental surfaces such as floors, walls, troughs, racks, feeders, fountains, appliances, and processing equipment in Poultry Houses and Poultry Hatcheries. It is effective against *Staphylococcus aureus*, *Salmonella enterica*, *Enterobacter aerogenes*, *Salmonella typhimurium*, *Listeria monocytogenes*, *Vibrio cholerae*, and *Pseudomonas aeruginosa* [and other bacteria listed in the Chart] when used at full strength (4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid), and 5% blood serum. For heavily soiled areas a pre-cleaning step is required. Apply PeridoxRTU™ solution with a spray applicator device, or other means that ensures that the surface is wet, or soak to wet all surfaces thoroughly with a contact time of 2 minutes. Rinse with clean water. Remove solution and entrapped soil with a dry, clean cloth. Air dry. If the PeridoxRTU™ solution becomes soiled (i.e., is not visibly clear) or diluted, replace and use fresh PeridoxRTU™ solution.

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 soap or detergent and rinse with water.

Thoroughly wet all surfaces with the recommended disinfecting solution for a period of **2 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 soap or detergent, and rinse with potable water before reuse.

**Sanitization Rinse on Pre-cleaned Hard, Non-porous Food Contact Surfaces.**

PeridoxRTU™ [solution] [sanitizer] is recommended for use on pre-cleaned non-porous, food contact surfaces such as equipment, pipelines, tanks, fillers, and evaporators as a sanitizer rinse. It is effective against *Staphylococcus aureus* and *Klebsiella pneumoniae* when used at full strength (4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid) with a **1 minute** contact time in the presence of a 5% organic load.. Pre-clean surfaces to remove gross particles. Wash with a detergent solution. Rinse with potable water. Apply PeridoxRTU™ solution with a spray applicator device, or other means that ensures that the surface is wet, or soak to wet all surfaces thoroughly. Remove excess water with a clean dry cloth or allow surfaces to air dry. For manual operations, fresh sanitizing solutions should be prepared daily or more often if the solution becomes diluted or soiled (i.e., is not visibly clear).

Always ensure the solution is fresh prior to application.

**Sanitization of Hard, Non-porous, Inanimate Surfaces.**

PeridoxRTU™ [solution] [sanitizer] is recommended for use on hard, non-porous surfaces such as glass, stainless steel, glazed tile, glazed porcelain, and plastic (for example, plastic laminate countertop). It is effective against *Escherichia coli* and *Staphylococcus aureus* when used at full strength (4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid) with a **1 minute** contact time in the presence of a 5% organic load.. Apply PeridoxRTU™ solution with a spray applicator device, or other means that ensures that the surface is wet, or soak to wet all surfaces thoroughly. Remove excess with a clean dry cloth or allow surfaces to air dry. Fresh sanitizing solutions should be prepared daily or more often if the solution becomes diluted or soiled (i.e., is not visibly clear).

Always ensure the solution is fresh prior to application.

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**MOLD KILLING, MILDEW CONTROL, & REMEDIATION**

Do not use in areas where food/ feed items are present.

**GENERAL INFORMATION**

Do not use in areas where food/ feed items are present. PeridoxRTU™ solution is for killing and control of mold.

Use PeridoxRTU™ solution:

To clean and deodorize; eliminate odors associated with bacteria, mold, mildew; prevent mold and mildew stains and odors.

To kill *Aspergillus niger* on hard, non-porous surfaces such as floors, tabletop, benchtops, drain troughs, drip pans, desks, locker room benches, hard, non-porous bath mats (e.g., rubber or plastic)[, and the use sites listed above].

To treat porous surfaces such as wood, tile grout, drywall, ceiling tile, carpets, upholstery cubical walls, wallpaper, posting boards in buildings and offices to kill mold.

Will not damage most surfaces.

Use PeridoxRTU™ solution in commercial, residential, and industrial buildings and facilities, in vehicles, and on mold infested items such as counter-tops, tables, furniture, cabinets, appliances (other than food contact surfaces), kitchen and bathroom fixtures, furnishings, hardware, and other non-porous, hard surfaces such as floors, tabletops, benchtops, drain troughs, drip pans, desks, locker room benches, and hard, non-porous bath mats (e.g., rubber or plastic) and porous surfaces such as wood, tile grout, drywall, ceiling tile, carpets, upholstery cubical walls, wallpaper, posting boards in buildings and offices. This product is for use in office buildings, homes, institutions such as schools, public buildings, daycare centers, hospitals, nursing homes, churches, and correctional facilities, warehouses, manufacturing facilities, lodging establishments, retail business, and athletic and recreational facilities.

This product is a “ready-to-use” solution comprising 4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid, and it should be used at full strength and should not be diluted before use.

Personal Protective Equipment (PPE):

Handlers must wear at a minimum:

- Long-sleeved shirt and long pants
- Shoes and socks
- Protective eye wear
- Chemical resistant gloves (materials that are chemical-resistant to this product include barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyethylene, polyvinyl chloride, Viton).

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Treatment of areas greater than 10 ft<sup>2</sup>, i.e., medium and large areas, may require additional PPE. For the treatment of large areas, i.e., greater than 100 ft<sup>2</sup>, eye goggles, protective garments, and a half-face or full-face respirator mask with a cartridge rated for organic vapors, are recommended. Examples of such respirator masks are 3M Air Purifying Respirators 5000 Series with cartridge/filter approved for organic vapors, Advantage 200 LS Respirator plus cartridges/filters approved for organic vapors, and North 7700 series half mask face-piece with cartridges/filters approved for organic vapors.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**DIRECTIONS FOR USE**

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

Typically, for hard, non-porous surfaces, wallboard, wood, and painted or sealed concrete, sealed masonry, or cinder block, PeridoxRTU™ solution can treat 1,000 – 2700 square feet per gallon. Typically, for carpet or textiles, PeridoxRTU™ solution can treat 200 – 400 square feet per gallon. Use PeridoxRTU™ solution only with adequate ventilation and exhaust the air to the outdoors and wear appropriate PPE. Avoid contact with other sanitizers, cleaners or organic substances.

The PeridoxRTU™ solution can be used as part of a comprehensive mold remediation when the following five (5) steps are performed:

- (1) Repair the source of moisture (stop leaks, etc) to eliminate conditions favorable to mold growth such as moisture ingress and high relative humidity and to prevent further mold growth and/or re-growth.
- (2) Set up adequate source containment of room or infected areas where applicable,
- (3) Clean the area/room to remove “fungal” material from surfaces and objects to be treated. Remove and discard or wash with soap and water and treat elsewhere all contaminated materials that are not readily cleanable or treatable in the area.
- (4) Apply PeridoxRTU™ solution to contaminated surfaces sufficient to maintain wet for **1 minute for hard, non-porous surfaces and 10 minutes for porous surfaces.**
- (5) Remove source containment as appropriate and prepare area for re-use.

The following associations and Internet sites should be consulted for information on standards and guidelines for remedial treatment of mold and mildew:

- IAQA-Indoor Air Quality Association ([www.iaqa.org](http://www.iaqa.org))
- EPA-Environmental Protection Agency ([www.epa.gov](http://www.epa.gov))

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DOH-New York City Department of Health  
([www.health.state.ny.us/environmental/indoors/air/mold.htm](http://www.health.state.ny.us/environmental/indoors/air/mold.htm))  
IICRC-Institute of Inspection, Cleaning and Restoration Certification ([www.iicrc.org](http://www.iicrc.org))

**Water Damage Remediation**

Remediation is required in situations where mold growth has occurred or materials have been wet for more than 48 hours. Even for materials that are dried within 48 hours, mold growth may have occurred. Note that mold growth will not always occur after 48 hours; this is only a guideline. Consult with local experts and professionals and/or refer to EPA guidance documents such as "Mold Remediation in Schools and Commercial Buildings", [www.epa.gov/mold/moldresources.html](http://www.epa.gov/mold/moldresources.html) for more information on how to cleanup after water damage.

**Source Containment**

Source containment is generally necessary only for some medium treatment areas (between 10 and 100 ft<sup>2</sup>), for all large treatment areas (> 100 ft<sup>2</sup>), or in those circumstances where cleaning and treatment may lead to spread of mold contamination to other areas, for example, by traffic, the movement of supplies or equipment, or as airborne contamination, or where it is desirable to contain airborne treatment aerosols, vapors, and mold.

When source containment is used, a half-face or full-face respirator mask with cartridge for organic vapors or other approved respiratory protection must be used. See instructions for PPE given above in this label.

Set up adequate source containment of room(s) or infected areas. Such containment may comprise one or more layers of plastic sheeting (e.g., polyethylene sheet), tape, or other physical barriers to the spread of contamination, cleaning solutions, or treatment solution. In many cases, a contained entry/egress area is recommended between uncontaminated areas and the contaminated area to be treated so that PPE, materials, and equipment can be treated or cleaned to avoid the spread of contamination.

**Cleaning**

Clean the area/room to remove "fungal" material from surfaces and objects to be treated. Remove and discard or wash and treat elsewhere all contaminated materials that are not readily cleanable or treatable in the area. Cleaning procedures and methods depend on the size of the area and the type of material to be treated. For heavy mold infestations, it may be desirable to use PeridoxRTU™ solution for cleaning prior to treatment. Specific directions and recommendations are given below. Contaminated materials removed from the area to be treated must be placed in a suitable, well sealed container or bag, e.g., a well sealed plastic bag, for removal and disposal by means consistent with applicable regulations. The outside of the containers or bags should be treated with PeridoxRTU™ solution to kill mold and to prevent spread of contamination.

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Select a method appropriate to the situation. Methods for cleaning specific types of materials are given below in this label. Since molds gradually destroy the things they grow on, if mold growth has not been addressed promptly, some items may be damaged such that cleaning will not restore their original appearance. If mold growth is heavy and items are valuable or important, you may wish to consult a restoration/water damage/remediation expert. Please note that these are guidelines.

**Application of PeridoxRTU™**

Apply PeridoxRTU™ solution at full strength (4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid) to contaminated surfaces in sufficient amount to maintain wet for **1 minute for hard, non-porous surfaces and 10 minutes for porous surfaces**. Application may be made by spraying, wiping with a clean cloth or sponge that is wet with PeridoxRTU™ solution, pouring, mopping, or brushing. Specific methods are given below according to the size of the area and materials to be treated.

**Remove source containment**

After air drying of the treated surfaces, remove source containment as appropriate and prepare the area for re-use. Dispose of all removed materials and left-over PeridoxRTU™ solution in a manner consistent with applicable regulations and the STORAGE and DISPOSAL instructions of this label.

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Directions are given below for treatment of SMALL AREAS, MEDIUM AREAS, and LARGE AREAS.

**DIRECTIONS FOR SMALL AREAS - Total Surface Area Affected Less Than 10 Square Feet**

The following three (3) steps identified below should always be followed.

Please note Step 1 for *Containment of the Affected Materials* should always be followed. Steps 2 and 3 for pre-cleaning surfaces and the application of the PeridoxRTU™ solution will vary depending on the type of material being treated. Detailed instructions for the treatment of each type of material are provided below.

**STEP 1 Containment of Affected Materials**

For small areas, containment of the affected materials is generally not needed.

For HARD, NON-POROUS SURFACES, WALLBOARD (drywall and gypsum board), WOOD SURFACES, PAINTED or SEALED CONCRETE, SEALED MASONRY, or CINDER BLOCK surfaces follow the appropriate pre-cleaning and application instructions as provided below.

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**STEP 2 Pre-clean the Surfaces**

**HARD, NON-POROUS SURFACES**

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This product kills *Aspergillus niger* on hard, non-porous surfaces such as floors, tabletops, benchtops, drains, troughs, drip pans, desks, locker room benches, non-porous bath mats.

Cleaning Methods

Prior to applying PeridoxRTU™ solution, clean the affected area using one of the following or consult a restoration/water damage/remediation expert. Remove visible mold growth by one of the following methods:

- Method 1 Damp-wipe surfaces with plain water or PeridoxRTU™ solution, scrub as needed.
- Method 2 High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags.

**WALLBOARD (drywall and gypsum board)**

Cleaning Methods

After the material has been thoroughly dried and prior to applying PeridoxRTU™ solution, clean the affected area using one of the following methods or consult restoration/water damage/remediation expert:

- Method 1 Use a high-efficiency particulate air (HEPA) vacuum to remove particulate from the wall. Dispose of the contents of the HEPA vacuum in a well-sealed plastic bag.

Method 2 Wipe the wall with a clean cloth wetted with clean water or PeridoxRTU™ solution. Dispose of the cleaning cloth in a well-sealed plastic bag.

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**WOOD SURFACES**

Cleaning Methods

Prior to applying PeridoxRTU™ solution clean the affected area to remove visible mold growth by using one of the following methods or consult a restoration/water damage/remediation expert.

- Method 1: Wet vacuum and allow to air dry or dry with a cloth. The vacuum and cloth must be treated as contaminated items.
- Method 2: Damp-wipe surfaces with plain water, PeridoxRTU™ solution, or a wood floor cleaner; scrub as needed.
- Method 3: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well- sealed plastic bags.

**PAINTED or SEALED CONCRETE, SEALED MASONRY, or CINDER BLOCK**

Do not treat unpainted or unsealed concrete, unsealed masonry, or cinder block with this product. Adequate application of this product and effective treatment of such materials is generally not practical.

Cleaning Methods

For painted or sealed concrete, sealed masonry, or cinder block, after thorough drying and prior to applying PeridoxRTU™ solution, clean the affected area using one of the following methods or consult restoration/water damage/remediation expert or contact a remediation expert:

- Method 1 Use a high-efficiency particulate air (HEPA) vacuum to remove particulate from the wall. Dispose of the contents of the HEPA vacuum in a well-sealed plastic bag.
- Method 2 Wipe the wall with a clean cloth wetted with clean water or PeridoxRTU™ solution. Dispose of the cleaning cloth in a well-sealed plastic bag.

For HARD, NON-POROUS SURFACES, WALLBOARD (drywall and gypsum board), WOOD SURFACES, PAINTED or SEALED CONCRETE, SEALED MASONRY, or CINDER BLOCK surfaces:

**STEP 3 Apply PeridoxRTU™ Solution to the Affected Surfaces**

Apply by wiping, brushing, or pouring or by spraying the PeridoxRTU™ solution at full strength (4.4% concentration of hydrogen peroxide and 0.23% of peroxyacetic acid) using smooth back and forth motions to cover the entire target area to ensure complete coverage, nominally apply 15-40 ml of PeridoxRTU™ solution per square meter (0.5 – 1.4 fl oz. per square yard); [for painted drywall, unpainted drywall may require application of a greater amount of PeridoxRTU™ solution per area]; [for painted or sealed concrete, sealed masonry, or cinder block, if the product is absorbed into the material, then additional product must be applied]; for

all materials, keep the surfaces wet for **1 minute**, re-apply PeridoxRTU™ solution to the surfaces if the surfaces dries before **1 minute** contact time; then remove solution and entrapped soil with a dry, cleaned cloth or allow to air dry.

**CARPETS and TEXTILES**

For CARPET and TEXTILES, follow the appropriate pre-cleaning, solution preparation, and application instructions as provided below.

**STEP 2 Pre-clean the CARPET and TEXTILES**

Successful treatment of carpet and textiles requires that cleaning removes sufficient visible mold growth and that the material can be thoroughly moistened by the PeridoxRTU™ solution. Heavily mold infested carpet and textiles are difficult to adequately clean. If the carpet or textile are not readily accessible for application of PeridoxRTU™ solution to obtain thorough wetting, the carpet or textile must be removed and discarded in a manner consistent with applicable regulations and instructions given in this label.

Spot test an inconspicuous area of carpet with the PeridoxRTU™ solution to ensure that the carpet dyes will not 'bleed' or fade and staining will not occur.

Cleaning Methods

For small spots of heavy mold growth, wipe, brush, or sponge with clean water or PeridoxRTU™ solution to remove mold growth. Dry carpets within 24 hours to eliminate conditions favorable to mold growth. To assist the drying process, the use of fans, dehumidifiers, heaters or other methods of ventilation are encouraged. Please consult with your local county extension office or EPA, [www.epa.gov/mold/moldresources.html](http://www.epa.gov/mold/moldresources.html) for more information.

After thorough drying, the carpet or textile should be vacuumed thoroughly, and the vacuum cleaner bag discarded in a well-sealed plastic bag or container. In general, the carpet or textile will be in an area with other materials, which must also be cleaned and then treated with PeridoxRTU™ solution as part of a comprehensive area cleaning and treatment.

**STEP 3 Apply PeridoxRTU™ Solution to the Affected Surfaces**

Apply by wiping, brushing, or pouring or by spraying the PeridoxRTU™ solution using smooth back and forth motions to cover the entire target area to ensure complete coverage, nominally apply 100-200 ml of PeridoxRTU™ solution per square meter (3.4 - 6.8 fl oz. per square yard) to carpet; keep the surfaces wet for **10 minutes**, re-apply PeridoxRTU™ solution to the surfaces if the surfaces dries before **10 minutes** contact time; then remove solution and entrapped soil with a dry, cleaned cloth or allow to air dry before re-entry for re-use.

Note that many carpets and textiles are treated with a stain release or water repellent. Brushing or other means may be necessary to ensure that this product has thoroughly wetted the carpet or textile. Application of Peridox™ solution by spraying on top of carpet may not adequately wet carpet pads installed under such carpets. It is recommended that a spot test be performed in

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which the carpet is lifted after application of PeridoxRTU™ solution to verify that the product has penetrated the carpet and wetted the carpet pad. If in doubt that the pad has been adequately wetted, remove and dispose of the carpet pad.

**DIRECTIONS FOR MEDIUM AREAS - Total Surface Area Affected Between 10 and 100 Square Feet**

The following three (3) steps identified below should always be followed.

Please note Step 1 for *Containment of the Affected Materials* should always be followed. Steps 2 and 3 for pre-cleaning surfaces and the application of the PeridoxRTU™ solution will vary depending on the type of material being treated. Detailed instructions for the treatment of each type of material are provided below.

**STEP 1 Containment of Affected Materials**

When containment is used, respiratory PPE must be used.

If the total amount of PeridoxRTU™ solution to be applied is less than 500 ml per 10 m<sup>3</sup> (0.13 gal per of 13 cubic yards) of space containing the affected surface area and the space is well ventilated with an adjacent space of at least 20 m<sup>3</sup> (approx. 25 cubic yards), then containment may not be necessary.

Otherwise, use polyethylene sheeting ceiling to floor around affected area or at doorway(s) to room. Use a slit entry in the plastic sheeting and a covering flap. Block supply and return air vents within containment area. To avoid spread of the contamination, it is recommended that the containment area be kept under negative pressure with a HEPA filtered fan unit during cleaning and treatment.

Because of the greater application rate of product per area for carpet and textile, if carpet and/or textile are to be treated, then precautions in addition to blocking supply and return air vents must be taken to avoid exhausting fumes from the treatment into occupied spaces unless there is adequate ventilation.

For HARD, NON-POROUS SURFACES, WALLBOARD (drywall and gypsum board), WOOD SURFACES, PAINTED or SEALED CONCRETE, SEALED MASONRY, or CINDER BLOCK surfaces follow the appropriate pre-cleaning and application instructions as provided below.

**STEP 2 Pre-clean the Surfaces**

**HARD, NON-POROUS SURFACES**

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This product kills *Aspergillus niger* on hard, non-porous surfaces such as floors, tabletops, benchtops, drains, troughs, drip pans, desks, locker room benches, non-porous bath mats.

Cleaning Methods

Prior to applying PeridoxRTU™ solution, clean the affected area using one of the following or consult a restoration/water damage/remediation expert. Remove visible mold growth by one of the following methods:

- Method 1 Damp-wipe surfaces with plain soap and water or PeridoxRTU™ solution, scrub as needed.
- Method 2 High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags.

**WALLBOARD (drywall and gypsum board)**

Cleaning Methods

After the material has been thoroughly dried and prior to applying PeridoxRTU™ solution, clean the affected area using one of the following or consult a restoration/water damage/remediation expert:

- Method 1 Use a high-efficiency particulate air (HEPA) vacuum to remove particulate from the wall. Dispose of the contents of the HEPA vacuum in a well-sealed plastic bag.
- Method 2 Wipe the wall with a clean cloth wetted with clean water or PeridoxRTU™ solution. Let air dry or dry with a clean dry cloth. Dispose of the cloth in a well-sealed plastic bag.

It is recommended that adjacent ceiling surfaces be cleaned as well as walls. The ceiling should be cleaned first and then the walls. Small portions of wall should be cleaned and then wiped dry prior to proceeding to adjacent portions of wall so that contaminated runoff is minimized. If two persons perform the cleaning, it is recommended that one person wipe with a wet cloth and the other follows and wipes with the drying cloth.

**WOOD SURFACES**

Cleaning Methods

Prior to applying PeridoxRTU™ solution clean the affected area to remove visible mold growth by using one of the following methods or consult a restoration/water damage/remediation expert.

- Method 1: Wet vacuum and allow to air dry or dry with a cloth. The vacuum and cloth must be treated as contaminated items.
- Method 2: Damp-wipe surfaces with plain water or use a wood floor cleaner; scrub as needed.
- Method 3: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags.

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**PAINTED or SEALED CONCRETE, SEALED MASONRY, or CINDER BLOCK**

Treatment of unpainted or unsealed concrete, unsealed masonry, or cinder block is not recommended. Adequate application of this product and effective treatment of such materials is generally not practical.

Cleaning Methods

For painted or sealed concrete, sealed masonry, or cinder block, after thorough drying and prior to applying PeridoxRTU™ solution, clean the affected area using one of the following or consult a restoration/water damage/remediation expert:

- Method 1 Wet vacuum and allow to air dry or dry with a cloth. The vacuum and cloth must be treated as contaminated items.
- Method 2 Use a high-efficiency particulate air (HEPA) vacuum to remove particulate from the wall. Dispose of the contents of the HEPA vacuum in a well-sealed plastic bag.
- Method 3 Wipe the wall with a clean cloth wetted with clean water or PeridoxRTU™ solution. Dispose of the cleaning cloth in a well-sealed plastic bag.

For HARD, NON-POROUS SURFACES, WALLBOARD (drywall and gypsum board), WOOD SURFACES, PAINTED or SEALED CONCRETE, SEALED MASONRY, or CINDER BLOCK surfaces:

**STEP 3 Apply PeridoxRTU™ Solution to the Affected Surfaces**

Apply by wiping, brushing, mopping, or pouring or by spraying the PeridoxRTU™ solution using smooth back and forth motions to cover the entire target area to ensure complete coverage, nominally apply 15-40 ml of PeridoxRTU™ solution per square meter (0.5 - 1.4 fl oz. per square yard); [for painted drywall, unpainted drywall may require application of a greater amount of PeridoxRTU™ solution per area]; [for painted or sealed concrete, sealed masonry, or cinder block, if the product is absorbed into the material, then additional product must be applied]; for all materials, keep the surfaces wet for **1 minute**, re-apply PeridoxRTU™ solution to the surfaces if the surfaces dries before **1 minute** contact time; then remove solution and entrapped soil with a dry, cleaned cloth or allow to air dry.

CARPETS and TEXTILES

For CARPET and TEXTILES, follow the appropriate pre-cleaning, solution preparation, and application instructions as provided below.

**STEP 2 Pre-clean the CARPET and TEXTILES**

Successful treatment of carpet and textiles requires that cleaning removes sufficient visible mold growth and that the material can be thoroughly moistened by the PeridoxRTU™ solution. Heavily mold infested carpet and textiles are difficult to adequately clean. If the carpet or textile are not readily accessible for application of PeridoxRTU™ solution to obtain thorough wetting, the carpet or textile must be removed and discarded in a manner consistent with applicable regulations and instructions given in this label.

Spot test an inconspicuous area of carpet with the prepared PeridoxRTU™ solution to ensure

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that the carpet dyes will not 'bleed' or fade and staining will not occur.

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For small spots of heavy mold growth, wipe, brush, or sponge with clean water or PeridoxRTU™ solution to remove mold growth. Dry carpets within 24 hours to eliminate conditions favorable to mold growth. To assist the drying process, the use of fans, dehumidifiers, heaters or other methods of ventilation are encouraged. Please consult with your local county extension office or EPA, [www.epa.gov/mold/moldresources.html](http://www.epa.gov/mold/moldresources.html) for more information.

After thorough drying, the carpet or textile should be vacuumed thoroughly, and the vacuum cleaner bag discarded in a well-sealed plastic bag or container. In general, the carpet or textile will be in an area with other materials, which must also be cleaned and then treated with PeridoxRTU™ solution as part of a comprehensive area cleaning and treatment.

**STEP 3 Apply PeridoxRTU™ Solution to the Affected Surfaces**

Apply by wiping, brushing, mopping, or pouring or by spraying the PeridoxRTU™ solution using smooth back and forth motions to cover the entire target area to ensure complete coverage, nominally apply 100-200 ml of PeridoxRTU™ solution per square meter (3.4 - 6.8 fl oz. per square yard) to carpet; keep the surfaces wet for **10 minutes**, re-apply PeridoxRTU™ solution to the surfaces if the surfaces dries before **10 minutes** contact time; then remove solution and entrapped soil with a dry, cleaned cloth or allow to air dry before re-entry for re-use.

Note that many carpets and textiles are treated with a stain release or water repellent. Brushing or other means may be necessary to ensure that this product has thoroughly wetted the carpet or textile. Application of PeridoxRTU™ solution by spraying on top of carpet may not adequately wet carpet pads installed under such carpets. It is recommended that a spot test be performed in which the carpet is lifted after application of PeridoxRTU™ solution to verify that the product has penetrated the carpet and wetted the carpet pad. If in doubt that the pad has been adequately wetted, removal and disposal of the carpet pad is recommended.

After treatment, air dry carpet and textiles or use fans, dehumidifiers, heaters or other methods of ventilation to assist in the drying.

**DIRECTIONS FOR LARGE AREAS - Total Surface Area Affected Greater Than 100 Square Feet or Potential for Increased Occupant or Remediator Exposure During Remediation is Estimated to be Significant**

Special procedures and training are required for remediation of moldy areas larger than 100 square feet. Consult guidelines for remediation of large areas established by the Indoor Air Quality Association ([www.iaqa.org](http://www.iaqa.org)) and the US Environmental Protection Agency ([www.epa.gov](http://www.epa.gov)). An excellent reference is the New York City Department of Health publication, "Guidelines on Assessment and Remediation of Fungi in Indoor Environments." An excellent guide for professional mold remediation is available from the Institute of Inspection, Cleaning and Restoration Certification (IICRC). Standard S520 is based upon reliable remediation and

restoration techniques, and combines academic principles with practical elements of water damage restoration. Where structural members and/or contents have been exposed to water in excess of 24 hours, there is a possibility of extensive microbial growth that may be hidden. In such a case a complete assessment and remediation plan must be prepared that provides for user and occupant safety and documentation and monitoring of the remediation process. IICRC S520 contains excellent guidance for such a plan. Before conducting remediation of large projects, you should be knowledgeable of these guidelines and follow their recommendations.

In the absence of access to the guidance and standards identified, the user should refer to the following information taken from U.S. EPA's guide: Mold Remediation in Schools and Commercial Buildings (March 2001). These guidelines are based on the area and type of material affected by water damage and/or mold growth. Please note that these are guidelines; some professionals may prefer other cleaning methods.

**Use appropriate Personal Protective Equipment (PPE) for treatment of large areas**

Gloves, disposable full body clothing, head gear, foot coverings, full-face respirator with HEPA filter are the recommended personal protective equipment.

Use professional judgment to determine prudent levels of PPE and containment for each situation, particularly as the remediation site size increases and the potential for exposure and health effects rises. Assess the need for increased PPE if, during the remediation, more extensive contamination is encountered than was expected. These guidelines are for damage caused by clean water. If you know or suspect that the water source is contaminated with sewage, or chemical or biological pollutants, then the Occupational Safety and Health Administration (OSHA) requires PPE and containment. An experienced professional should be consulted if you and/or your remediators do not have expertise in remediating contaminated water situations.

The following three (3) steps identified below should always be followed.

Please note Step 1 for *Containment of the Affected Materials* should always be followed. Steps 2 and 3 for pre-cleaning surfaces and the application of the PeridoxRTU™ solution will vary depending on the type of material being treated. Detailed instructions for the treatment of each type of material are provided below.

**STEP 1 Containment of Affected Materials**

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with COMMENTS  
in EPA Letter Dated:  
**MAY 27 2009**

When containment is used, respiratory PPE must be used.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, this product, registered under EPA Reg. No. 81073-3

Use professional judgment and consider the potential for remediator and occupant exposure and size of contaminated area.

Use two layers of fire-retardant polyethylene sheeting with one airlock chamber. Maintain area under negative pressure with HEPA filtered fan exhausted outside of building. Block supply and return air vents within containment area.

**Testing before and after remediation**

For large areas, testing must be performed prior to and after remediation to validate the success of the treatment. A commonly used method is air sampling and analysis for viable and dead mold spores. Seek professional advice on how to perform such sampling and where to have samples analyzed.

For HARD, NON-POROUS SURFACES, WALLBOARD (drywall and gypsum board), WOOD SURFACES, PAINTED or SEALED CONCRETE, SEALED MASONRY, or CINDER BLOCK surfaces follow the appropriate pre-cleaning and application instructions as provided below.

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**STEP 2 Pre-clean the Surfaces**

MAY 27 2009

**HARD, NON-POROUS SURFACES**

Under the Federal Insecticide  
Fungicide and Rodenticide Act as 810733

This product kills *Aspergillus niger* on hard, non-porous surfaces such as floors, tabletops, benchtops, drains, troughs, drip pans, desks, locker room benches, non-porous bath mats.

Cleaning Methods

Prior to applying PeridoxRTU™ solution, clean the affected area using one of the following or consult a restoration/water damage/remediation expert. Remove visible mold growth by one of the following methods:

- Method 1 Damp-wipe surfaces with plain water or PeridoxRTU™ solution, scrub as needed.
- Method 2 High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags.

**WALLBOARD (drywall and gypsum board)**

Cleaning Methods

After the material has been thoroughly dried and prior to applying PeridoxRTU™ solution, clean the affected area using one of the following or consult a restoration/water damage/remediation expert:

- Method 1 Use a high-efficiency particulate air (HEPA) vacuum to remove particulate from the wall. Dispose of the contents of the HEPA vacuum in a well-sealed plastic bag.
- Method 2 Wipe the wall with a clean cloth wetted with clean water or PeridoxRTU™ solution. Let air dry or dry with a clean dry cloth. Dispose of the cloth in a well-sealed plastic bag.

It is recommended that adjacent ceiling surfaces be cleaned as well as walls. The ceiling should be cleaned first and then the walls. Small portions of wall should be cleaned and then wiped dry prior to proceeding to adjacent portions of wall so that contaminated runoff is minimized. If two persons perform the cleaning, it is recommended that one person wipe with a wet cloth and the other follows and wipes with the drying cloth.

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with COMMENTS  
in EPA Letter Dated:

MAY 27 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, Registration No. 810733

## WOOD SURFACES

### Cleaning Methods

Prior to applying PeridoxRTU™ solution clean the affected area to remove visible mold growth by using one of the following methods or consult a restoration/water damage/remediation expert.

- Method 1: Wet vacuum and allow to air dry or dry with a cloth. The vacuum and cloth must be treated as contaminated items.
- Method 2: Damp-wipe surfaces with plain water or use a wood floor cleaner; scrub as needed.
- Method 3: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags.

## PAINTED or SEALED CONCRETE, SEALED MASONRY, or CINDER BLOCK

Do not treat unpainted or unsealed concrete, unsealed masonry, or cinder block with this product. Adequate application of this product and effective treatment of such materials is generally not practical.

### Cleaning Methods

For painted or sealed concrete, sealed masonry, or cinder block, after thorough drying and prior to applying PeridoxRTU™ solution, clean the affected area using one of the following or consult a restoration/water damage/remediation expert:

- Method 1 Wet vacuum and allow to air dry or dry with a cloth. The vacuum and cloth must be treated as contaminated items.
- Method 2 Use a high-efficiency particulate air (HEPA) vacuum to remove particulate from the wall. Dispose of the contents of the HEPA vacuum in a well-sealed plastic bag.
- Method 3 Wipe the wall with a clean cloth wetted with clean water or PeridoxRTU™ solution. Dispose of the cleaning cloth in a well-sealed plastic bag.

For HARD, NON-POROUS SURFACES, WALLBOARD (drywall and gypsum board), WOOD SURFACES, PAINTED or SEALED CONCRETE, SEALED MASONRY, or CINDER BLOCK surfaces:

### **STEP 3 Apply PeridoxRTU™ Solution to the Affected Surfaces**

Apply by wiping, brushing, mopping, or pouring or by spraying the PeridoxRTU™ solution using smooth back and forth motions to cover the entire target area to ensure complete coverage, nominally apply 25-40 ml of PeridoxRTU™ solution per square meter (0.5 - 1.4 fl oz. per square yard); [for painted drywall, unpainted drywall may require application of a greater amount of PeridoxRTU™ solution per area]; [for painted or sealed concrete, sealed masonry, or cinder block, if the product is absorbed into the material, then additional product must be applied]; for all materials, keep the surfaces wet for **1 minute**, re-apply PeridoxRTU™ solution to the surfaces if the surfaces dries before **1 minute** contact time; then remove solution and entrapped soil with a dry, cleaned cloth or allow to air dry.

## CARPETS AND TEXTILES

MAY 27 2009  
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended  
81073-3

For CARPET and TEXTILES, follow the appropriate pre-cleaning, solution preparation, and application instructions as provided below.

### **STEP 2 Pre-clean the CARPET and TEXTILES**

Successful treatment of carpet and textiles requires that cleaning removes sufficient visible mold growth and that the material can be thoroughly moistened by the PeridoxRTU™ solution. Heavily mold infested carpet and textiles are difficult to adequately clean. If the carpet or textile are not readily accessible for application of PeridoxRTU™ solution to obtain thorough wetting, the carpet or textile must be removed and discarded in a manner consistent with applicable regulations and instructions given in this label.

Spot test an inconspicuous area of carpet with the prepared PeridoxRTU™ solution to ensure that the carpet dyes will not 'bleed' or fade and staining will not occur.

#### Cleaning Methods

For small spots of heavy mold growth, wipe, brush, or sponge with clean water or PeridoxRTU™ solution to remove mold growth. Dry carpets within 24 hours to eliminate conditions favorable to mold growth. To assist the drying process, the use of fans, dehumidifiers, heaters or other methods of ventilation are encouraged. Please consult with your local county extension office or EPA, [www.epa.gov/mold/moldresources.html](http://www.epa.gov/mold/moldresources.html) for more information.

After thorough drying, the carpet or textile should be vacuumed thoroughly, and the vacuum cleaner bag discarded in a well-sealed plastic bag or container. In general, the carpet or textile will be in an area with other materials, which must also be cleaned and then treated with PeridoxRTU™ solution as part of a comprehensive area cleaning and treatment.

### **STEP 3 Apply PeridoxRTU® Solution to the Affected Surfaces**

Apply by wiping, brushing, mopping, or pouring or by spraying the PeridoxRTU™ solution using smooth back and forth motions to cover the entire target area to ensure complete coverage, nominally apply 100-200 ml of PeridoxRTU™ solution per square meter (3.4 - 6.8 fl oz. per square yard) to carpet; keep the surfaces wet for **10 minutes**, re-apply PeridoxRTU™ solution to the surfaces if the surfaces dries before **10 minutes** contact time; then remove solution and entrapped soil with a dry, cleaned cloth or allow to air dry before re-entry for re-use. Note that many carpets and textiles are treated with a stain release or water repellent.

Brushing or other means may be necessary to ensure that this product has thoroughly wetted the carpet or textile. Application of PeridoxRTU™ solution by spraying on top of wall-to-wall carpet may not adequately wet carpet pads installed under such carpets. It is recommended that a spot test be performed in which the carpet is lifted after application of PeridoxRTU™ solution to verify that the product has penetrated the carpet and wetted the carpet pad. If in doubt that the pad has been adequately wetted, remove and dispose of the carpet pad.

After treatment, air dry carpet and textiles or use fans, dehumidifiers, heaters or other methods of ventilation to assist in the drying.

**STORAGE AND DISPOSAL**

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

**STORAGE:** Store in original containers in a cool, dry area, away from direct sunlight. Do not allow product to become overheated in storage. Avoid storage temperature above 30°C, 86°F. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water.

**DISPOSAL:** Wastes resulting from the use of this product must be disposed of onsite or at an approved waste disposal facility

**CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container.**

(Less than 1 gal container) If empty, wrap container and put in trash or offer for recycling, if available. If partly filled, call you local solid waste agency for disposal instructions.

(Larger than 1 gal. container) Triple rinse (or equivalent) prior to disposal. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY**

This material is safe and effective under the conditions of application as specified in the Directions for Use. To the fullest extent permitted by law, the manufacturer shall not be liable for improper application or use of this product beyond those purposes referred to in the Directions for Use. NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY IS MADE.

ACCEPTED  
with COMMENTS  
in EPA Letter Docket

MAY 27 2009  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, this pesticide is  
registered under EPA Reg. No. 81073-3