

81073-3

07-18-2010

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



United States
Environmental Protection
Agency

Office of Pesticide Programs

JUL 18 2010

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

Attention: Erin M. Tesch

Subject: Peridox® RTU

EPA Registration No. 81073-3
Amendment Dated November 25, 2009

The amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, to add new organisms and address minor grammatical revisions on the master label, 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 when the Agency requires all registrants of similar products to submit such data.
2. The proposed label claims that the product is an effective sterilant against "Bacillus subtilis" and "Clostridium sporogenes on pre-cleaned, hard, non-porous surfaces for a 45-minute contact time are acceptable. Refer to the enclosed copy of the Efficacy Review under "CONCLUSIONS" and "RECOMMENDATIONS" for further comments.
3. Submit two (2) copies of final printed labeling before you release the product for shipment.

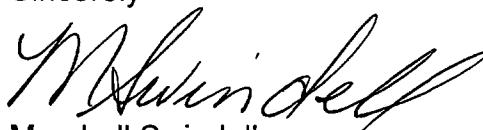
If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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A stamped copy of the "accepted" product labeling is enclosed for your records.

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)

Enclosures

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MASTER LABEL
PeridoxRTU™

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

ACTIVE INGREDIENTS:

Hydrogen Peroxide 4.40 %
Peroxyacetic Acid 0.23 %
Other Ingredients 95.37 %
Total 100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

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.)

FIRST AID	
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.	

Manufactured by: **Clean Earth Technologies, LLC**
4622 Earth City Expressway
Earth City, MO 63045
USA

ACCEPTED
with **COMMENTS**
EPA Letter Dated:

JUL 18 2010

EPA Reg. No. 81073-3
EPA Est. No. [pending]

Net Contents:

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

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

[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
- Cleaning and [deodorizing] [deodorization]
- Eliminate odors associated with bacteria, mold, mildew
- Prevent mold and mildew stains and odors.
- Use PeridoxRTU™ to disinfect and sanitize hard, non-porous surfaces and as a sanitizing rinse on previously cleaned hard, non-porous non-food and food-contact surfaces.
- For use in Mold Remediation on hard non-porous surfaces AND porous surfaces.

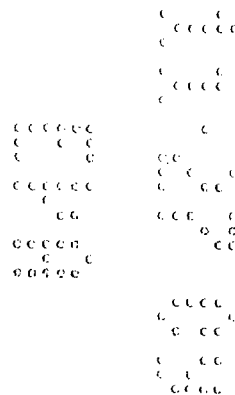
MOLD CONTROL:

- 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
- Sterilant/Disinfectant for Non-patient Contact for Healthcare and Veterinary Facilities
- Sporocidal 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] in the following section of this label and for uses and in sites as specified in the following directions for use.

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Under the Federal Insecticide,
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{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]!
- Sporicide, Sporicidal disinfectant, Virucidal, Bactericidal, Fungicidal, and Tuberculocidal.
- Kills [more than] 99.9999% [*Bacillus subtilis*] [*B. subtilis*] [*Bacillus*] [and] [*Clostridium sporogenes*] [*Clostridium*] [*C. sporogenes*] [spores] in 45 [minutes] [min]!
- Kills [bacteria] [fungal spores] [mold] [TB] [viruses] on surfaces.
- Kills [bacteria] [fungi] [spores] [viruses].
- [Kills] [*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] [Sporicide] [Bactericide] [Sporicidal Disinfectant] [Sterilant] [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", "Sporicide", "Bactericide", "Sporicidal Disinfectant", "Sterilant", 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] [sterilize].

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{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] [Sanitizer] [Sterilant] [Sporicide] [Sporicidal Disinfectant] is ready-to-use.
- Ready-to-use [Microbiocide] [Disinfectant] [Sanitizer] [Sterilant] [Sporicidal Disinfectant]
- No mixing required. This product is ready-to-use.

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

DISINFECTANT	SANITIZER
<p><u>Bactericidal (2 minutes)</u> <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>(30 seconds on <u>hard, inanimate non-food contact surfaces:</u> <i>Staphylococcus aureus</i> (ATCC 6538) <i>Klebsiella pneumoniae</i> (ATCC 4352)</p> <p>(30 seconds on <u>pre-cleaned, food contact surfaces:</u> <i>Escherichia coli</i> (ATCC 6538) <i>Staphylococcus aureus</i> (ATCC 11229)</p>
<p><u>Tuberculocidal (5 minutes)</u> <i>Mycobacterium bovis</i></p> <p><u>Viricidal (2 minutes)</u> 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) Human Immunodeficiency Virus Type 1 (HIV-1, Zeptomatrix Corp.)</p>	<p style="text-align: center;">STERILANT</p> <p>(45 minutes @ room temperature) <i>Bacillus subtilis</i> (ATCC 19659) <i>Clostridium sporogenes</i> (ATCC 3584)</p> <p style="text-align: center;">ACCEPTED with COMMENTS EPA Letter Dated: JUL 18 2010</p> <p>Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 81073-3</p>

<p>Influenza A (ATCC VR 544) Influenza A (H1N1) (ATCC VR-1469, Strain A/PR/8/34) Influenza B (ATCC VR 823) Norovirus (F. Calicivirus) (ATCC VR 782) Poliovirus type-1 (ATCC VR 1562) Reovirus (ATCC VR 232) Respiratory syncytial virus (RSV) (ATCC VR-26) Rhinovirus (ATCC VR-338) Rotavirus (Strain WA)</p> <p><u>Sporicidal Activity of Disinfectant (7 minutes)</u> <i>Clostridium difficile</i> spores (ATCC 700792)</p> <p><u>Fungicidal/Mold Killing</u> <u>(1 minute hard surfaces)</u> <i>Aspergillus niger</i> (ATCC 16404) <i>Candida albicans</i> (ATCC 10231) <i>Trichophyton mentagrophytes</i> (athlete's foot fungus) (ATCC 9533)</p> <p><u>Mold-killing</u> <u>(10 minute) Porous Surfaces</u> <i>Aspergillus niger</i></p>	<p>ACCEPTED with COMMENTS EPA Letter Dated:</p> <p>JUL 18 2010</p> <p>Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 81073-3</p>
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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, Laboratories, Nursing Homes, Physical Therapy, Doctor'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; Other Sites such as Schools, Colleges, Day-care Centers, Child-care Facilities, Correctional Facilities; Hospitality Establishments such as Hotels, Motels, and 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.

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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.

This product is a “ready-to-use” liquid, comprised of 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.

Before using this product read the entire label.

PeridoxRTU™ microbicide 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 on page ()]. For heavily soiled areas, pre-cleaning is required. Apply the PeridoxRTU™ microbicide to the contaminated surface with a spray applicator device at an application rate of greater than 50 ml/m² (approximately 1.5 fluid oz of the “ready-to-use” PeridoxRTU™ liquid per square yard), or by other means that ensure that the surface is wet (for example, by wiping with a clean cloth or sponge that is wet with PeridoxRTU™ liquid), or by soaking the contaminated surface and allowing it to remain on the surface for 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™ microbicide [as a] [disinfectant] in Hospitals, Surgical and Obstetrical Suites, Housekeeping Services, Physical Therapy Departments, Nursing Services, [and] Autopsy Facilities[, as well as the use sites listed on page ()].

Use PeridoxRTU™ microbicide [as a] [disinfectant] in nursing homes, health-care facilities, schools, colleges, day-care centers, child-care facilities, veterinary clinics, animal life science laboratories, industrial facilities, dining areas (non-food contact surfaces), office buildings, recreational facilities, retail and wholesale establishments[, as well as the use sites listed on page ()].

Use PeridoxRTU™ microbicide [as a] [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.

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Combination Disinfection and Cleaning:

PeridoxRTU™ [microbicide] [disinfectant] [liquid] 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] on hard non-porous surfaces. For heavily soiled areas a pre-cleaning step is required. Apply PeridoxRTU™ [microbicide] [disinfectant] [liquid] with a spray applicator device, or other means that ensures that the surface is thoroughly wet. Allow surfaces to remain wet for **2 minutes**; then, wipe with a dry clean cloth. If the PeridoxRTU™ [microbicide] [disinfectant] [liquid] becomes soiled (i.e., is not visibly clear) or diluted, replace and use fresh PeridoxRTU™ [microbicide] [disinfectant] [liquid].

Virucidal. PeridoxRTU™ [microbicide] [disinfectant] [liquid] is effective [virucide] against [the viruses listed in the Chart][, which include] Avian Influenza A (H3N2), Influenza A (H1N1), Norovirus, Poliovirus, Reovirus, Rhinovirus [and] Human Coronavirus [and *specific virus(es) listed on the chart*] on hard, nonporous inanimate surfaces 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™ [microbicide] [disinfectant] [liquid] with a spray applicator device, or other means that ensures that the surface is thoroughly wet. Allow surfaces to remain wet for **2 minutes**; then, wipe with a dry, clean cloth.

Fungicidal. PeridoxRTU™ [microbicide] [disinfectant] [liquid] [is a] [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™ [microbicide] [disinfectant] [liquid] [fungicide] with a spray applicator device, or other means that ensures that the surface is thoroughly wet. Allow surfaces to remain wet for **1 minute**; then, wipe with a dry, clean cloth.

Sporicidal Disinfectant. PeridoxRTU™ [microbicide] [sporicidal disinfectant] [disinfectant] is effective [sporicidal disinfectant] 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™ [microbicide] [disinfectant] [liquid] with a spray applicator device, or other means that ensures that the surface is thoroughly wet. Allow surfaces to remain wet for **7 minutes**; then, wipe with a dry, clean cloth.

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

ACCEPTED

Cleaning ~~With COMMENTS~~ matter/waste must be thoroughly cleaned from surfaces/objects by application with a clean cloth, mop, and/or sponge

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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 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.

[Specific Instructions for Blood-borne Pathogens:] [KILLS HIV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS in healthcare settings and other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood/body fluids, and in which the surfaces/object likely to be soiled with blood/body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS).

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATING AGAINST HIV-1 (Aids Virus) OF SURFACE/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.

Personal Protection: [Clean up should always be done wearing protective gloves, gowns, masks, and eye protection.] [Disposable latex or vinyl gloves, gowns, face masks, or eye coverings as appropriate, must be worn during all cleaning of body fluids, blood, and decontamination.

Cleaning Procedure: Blood/body fluids must be thoroughly cleaned from surfaces/objects before application of this product.

Contact Time: [Allow surface to remain wet for **2 minutes** to kill HIV-1.] [Leave surface wet for 2 minutes to kill HIV-1.] [Use contact time listed for all other organisms claimed.] [Consult Organism Chart/Table for all other contact times.]

Disposal of Infectious Material: Blood/body fluids should be autoclaved and disposed of according to Federal, State, and local regulations for infectious waste 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

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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, non-porous inanimate surfaces with a **5 minute** contact time in the presence of a 5% organic load. For heavily soiled areas a pre-cleaning step is required. Apply PeridoxRTU™ [microbicide] [disinfectant] [liquid] with a spray applicator device, or other means that ensures that the surface is thoroughly wet. Allow surfaces to remain wet for **5 minutes**; then, wipe with a dry clean cloth.

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] and 5% blood serum. For heavily soiled areas a pre-cleaning step is required. Apply PeridoxRTU™ [microbicide] [disinfectant] [liquid] with a spray applicator device, or other means that ensures that the surface is thoroughly wet with a contact time of **2 minutes**. Rinse with sterile water. Wipe with a dry, clean cloth. Air dry.

STERILIZATION

Sterilant for Non-patient Contact Surfaces for Healthcare and Veterinary Facilities. Prior to use of PeridoxRTU™ [microbicide][liquid] as a sterilant, remove gross soil particles from processing surfaces, then wash with a detergent solution, followed by a potable water rinse. PeridoxRTU™ [microbicide][liquid] is recommended for use as a sterilant on hard, non-porous, inanimate confining (e.g., rimmed) surfaces that permit a contiguous layer of liquid to cover the surface for the recommended contact time of **45 minutes**, immersible objects in containers and interior surfaces of containers for non-patient contact in healthcare and veterinary facilities. Apply PeridoxRTU™ [microbicide][liquid] by immersion of objects in containers, by covering interior surfaces of containers, or by confining (e.g., rimmed) surfaces (e.g., floors, tables, counters) that permit a contiguous layer of liquid to cover the surface for the recommended contact time of **45 minutes**. This product is effective against *Clostridium sporogenes* and *Bacillus subtilis* vegetative cells and spores and a 5% organic load. Remove PeridoxRTU™ and entrapped soil with a clean, dry, sterile cloth. If the PeridoxRTU™ [microbicide][liquid] becomes soiled (i.e., is not visibly clear) or diluted, replace and use fresh PeridoxRTU™ [microbicide][liquid]. **Do not use this product as a sterilant on medical devices.**

Disinfectant for Farm Premises. PeridoxRTU™ [microbicide] [disinfectant] [liquid] 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] and 5% blood serum. For heavily soiled areas a pre-cleaning step is required.

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

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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.

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

Apply PeridoxRTU™ [microbicide] [disinfectant] [liquid] with a spray applicator device, or other means that ensures that the surface is thoroughly wet with a contact time of **2 minutes**. Rinse with clean water. Wipe with a dry, clean cloth. Air dry.

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. If the PeridoxRTU™ [microbicide] [disinfectant] [liquid] becomes soiled (i.e., is not visibly clear) or diluted, replace and use fresh PeridoxRTU™ [microbicide] [disinfectant] [liquid].

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™ [microbicide] [disinfectant] [liquid] 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] and 5% blood serum. For heavily soiled areas a pre-cleaning step is required.

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.

Apply PeridoxRTU™ [microbicide] [disinfectant] [liquid] with a spray applicator device, or other means, that ensures that the surface is thoroughly wet with a contact time of **2 minutes**. Rinse with clean water. Wipe with a dry, clean cloth. Air dry.

Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.

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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™ [microbicide] [liquid] [sanitizer] is recommended [as a sanitizer] 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 *Escherichia coli* with a **30 second** contact time. Pre-clean surfaces to remove gross particles. Wash with a detergent solution. Rinse with potable water. Apply PeridoxRTU™ [microbicide] [liquid] with a spray applicator device, or other means that ensures that the surface is thoroughly wet. Wipe with a clean dry cloth or allow surfaces to air dry.

Sanitization of Hard, Non-porous, Inanimate Surfaces. PeridoxRTU™ [microbicide] [liquid] [sanitizer] is recommended [as a sanitizer] 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 *Klebsiella pneumoniae* and *Staphylococcus aureus* with a **30 second** contact time in the presence of a 5% organic load. Apply PeridoxRTU™ [microbicide] [liquid] with a spray applicator device, or other means that ensures that the surface is thoroughly wet. Wipe with a clean dry cloth or allow surfaces to air dry.

MOLD KILLING, MILDEW CONTROL, & REMEDIATION

GENERAL INFORMATION

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

This product is a “ready-to-use” liquid, comprised of 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.

Use PeridoxRTU™ [microbicide] [liquid]:

- 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 on page ()].
- To treat porous surfaces such as wood, tile grout, drywall, ceiling tile, carpets, upholstery cubical walls, wallpaper, posing boards in buildings and offices to kill mold.

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Use PeridoxRTU™ [microbicide] [liquid] 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, child-care facilities, day-care centers, hospitals, nursing homes, churches, and correctional facilities, warehouses, manufacturing facilities, lodging establishments, retail business, and athletic and recreational facilities.

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Personal Protective Equipment (PPE):

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When working in mold remediation areas, handlers must wear at a minimum:

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- 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).

Treatment of areas greater than 10 ft², i.e., medium and large areas, may require additional PPE. For the treatment of large areas, i.e., greater than 100 ft², 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.

HARD, NON-POROUS SURFACES, WALLBOARD, WOOD AND PAINTED OR SEALED CONCRETE, SEALED MASONRY OR SEALED CINDER BLOCKS

For hard, non-porous surfaces, wallboard, wood, and painted or sealed concrete, sealed masonry, or sealed cinder block, PeridoxRTU™ [microbicide] [liquid] can treat 1,000 – 2,700 square feet per gallon. For carpet or textiles, PeridoxRTU™ [microbicide] [liquid] can treat 200 – 400 square feet per gallon. Use PeridoxRTU™ [microbicide] [liquid] only with adequate ventilation and exhaust the air to the outdoors and wear appropriate PPE. Avoid contact with other sanitizers, cleaners or organic substances.

MOLD REMEDIATION. The PeridoxRTU™ [microbicide] [liquid] can be used as part of a comprehensive mold remediation program 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™ [microbicide] [liquid] 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)
- EPA-Environmental Protection Agency (www.epa.gov)
- DOH-New York City Department of Health (www.health.state.ny.us/environmental/indoors/air/mold.htm)
- IICRC-Institute of Inspection, Cleaning and Restoration Certification (www.iicrc.org)

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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 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 ft²), for all large treatment areas (> 100 ft²), 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 MOLD REMEDIATION PPE provided in this label.

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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™ [microbicide] [liquid] for cleaning prior to treatment. Specific directions and recommendations are provided in the following section. 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™ [microbicide] [liquid] to kill mold and to prevent spread of contamination.

Select a method appropriate to the situation. Methods for cleaning specific types of materials are provided in the following sections of 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™ [microbicide] [liquid]

Apply PeridoxRTU™ [microbicide] [liquid] directly 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™ [microbicide] [liquid], pouring, mopping, or brushing. Specific methods are provided in this label 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 any used PeridoxRTU™ [microbicide] [liquid] in a manner consistent with applicable regulations and the STORAGE and DISPOSAL instructions of this label.

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Directions are provided in the following sections of this label 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 in this section 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™ [microbicide] [liquid] will vary depending on the type of material being treated. Detailed instructions for the treatment of each type of material are provided in this section.

STEP 1 Containment of Affected Materials

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

STEP 2 Pre-clean the Surfaces

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

• **HARD, NON-POROUS SURFACES**

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™ [microbicide] [liquid], 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™ [microbicide] [liquid], 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.

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• **WALLBOARD (drywall and gypsum board)**

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Cleaning Methods: After the material has been thoroughly dried and prior to applying PeridoxRTU™ [microbicide] [liquid], 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™ [microbicide] [liquid]. Dispose of the cleaning cloth in a well-sealed plastic bag.

• **WOOD SURFACES**

Cleaning Methods: Prior to applying PeridoxRTU™ [microbicide] [liquid], 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™ [microbicide] [liquid], 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 SEALED CINDER BLOCK**

Do not treat unpainted or unsealed concrete, unsealed masonry, or unsealed 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 sealed cinder block, after thorough drying and prior to applying PeridoxRTU™ [microbicide] [liquid], 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™ [microbicide] [liquid]. Dispose of the cleaning cloth in a well-sealed plastic bag.

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For CARPET and TEXTILES: follow the appropriate pre-cleaning and application instructions as provided in this section.

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™ [microbicide][liquid]. Heavily mold infested carpet and textiles are difficult to adequately clean. If the carpet or textile are not readily accessible for application of PeridoxRTU™ [microbicide][liquid] 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™ [microbicide][liquid] 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™ [microbicide][liquid] 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 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™ [microbicide][liquid] as part of a comprehensive area cleaning and treatment.

STEP 3 Apply PeridoxRTU™ [Microbicide] [Liquid] to the Affected Surfaces

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

Apply by wiping, brushing, pouring or spraying the PeridoxRTU™ [microbicide][liquid] at full strength using smooth back and forth motions to ensure complete coverage of the entire target area. Apply 15-40 ml of PeridoxRTU™ [microbicide][liquid] per square meter (0.5 – 1.4 fl oz. per square yard). Unpainted drywall may require application of a greater amount of PeridoxRTU™ [microbicide][liquid] per area. For painted or sealed concrete, sealed masonry, or sealed cinder block, additional product must be applied if the product is absorbed into the material.

Keep surfaces wet for 1 minute. If surfaces dry before 1 minute contact time, re-apply PeridoxRTU™ [microbicide][liquid]. After 1-minute contact time, remove solution and entrapped soil with a dry, clean cloth or allow to air dry.

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• **CARPETS and TEXTILES:**

Apply by wiping, brushing, pouring or spraying the PeridoxRTU™ [microbicide][liquid] using smooth back and forth motions to ensure complete coverage of the entire target area. Apply 100-200 ml of PeridoxRTU™ [microbicide][liquid] per square meter (3.4 - 6.8 fl oz. per square yard) to carpet. Keep the surfaces wet for **10 minutes**. If the surfaces dry before **10 minutes** contact time, re-apply PeridoxRTU™ [microbicide][liquid]. After 10 minutes contact time, remove solution and entrapped soil with a dry, clean 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™RTU [microbicide][liquid] 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™ [microbicide][liquid] 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 in this section 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™ [microbicide][liquid] will vary depending on the type of material being treated. Detailed instructions for the treatment of each type of material are provided in this section.

STEP 1 Containment of Affected Materials

When containment is used, respiratory PPE must be used.

If the total amount of PeridoxRTU™ [microbicide][liquid] to be applied is less than 500 ml per 10 m³ (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 m³ (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.

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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.

STEP 2 Pre-clean the Surfaces

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

• HARD, NON-POROUS SURFACES

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 (e.g., rubber or plastic).

Cleaning Methods: Prior to applying PeridoxRTU™ [microbicide][liquid], 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™ [microbicide][liquid], 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™ [microbicide][liquid], 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™ [microbicide][liquid]. 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

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other follows and wipes with the drying cloth.

• **WOOD SURFACES**

Cleaning Methods: Prior to applying PeridoxRTU™ [microbicide][liquid] 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 SEALED CINDER BLOCK**

Treatment of unpainted or unsealed concrete, unsealed masonry, or unsealed 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 sealed cinder block, after thorough drying and prior to applying PeridoxRTU™ [microbicide][liquid], 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™ [microbicide][liquid]. Dispose of the cleaning cloth in a well-sealed plastic bag.

For CARPET and TEXTILES: follow the appropriate pre-cleaning and application instructions as provided in this section.

Successful treatment of carpet and textiles requires that cleaning removes sufficient visible mold growth and that the material can be thoroughly moistened by PeridoxRTU™ [microbicide][liquid]. Heavy mold-infested carpet and textiles are difficult to adequately clean. If the carpet or textile are not readily accessible for application of PeridoxRTU™

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[microbicide][liquid] 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 PeridoxRTU™ [microbicide][liquid] 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™ [microbicide][liquid] 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 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™ [microbicide][liquid] as part of a comprehensive area cleaning and treatment.

STEP 3 Apply PeridoxRTU™ [Microbicide] [Liquid] to the Affected Surfaces

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

Apply by wiping, brushing, mopping, pouring or spraying the PeridoxRTU™ [microbicide][liquid] using smooth back and forth motions to ensure complete coverage of the entire target area. Apply 15-40 ml of PeridoxRTU™ [microbicide][liquid] per square meter (0.5 - 1.4 fl oz. per square yard). Unpainted drywall may require application of a greater amount of PeridoxRTU™ [microbicide][liquid] per area. For painted or sealed concrete, masonry, or cinder block, additional product must be applied if the product is absorbed into the material.

Keep surfaces wet for **1 minute**. If the surfaces dry before **1 minute** contact time, re-apply PeridoxRTU™ [microbicide][liquid]. After **1 minute** contact time, remove solution and entrapped soil with a dry, clean cloth or allow to air dry.

- **CARPET and TEXTILES:**

Apply by wiping, brushing, mopping, pouring or spraying the PeridoxRTU™ [microbicide][liquid] using smooth back and forth motions to ensure complete coverage of the entire target area. Apply 10-200 ml of PeridoxRTU™ [microbicide][liquid] per square meter (3.4 - 6.8 fl oz. per square yard).

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Keep the surface wet for **10 minutes**. Re-apply PeridoxRTU™ [microbicide][liquid] to the surface if it dries before **10 minutes** contact time. After **10 minutes** contact time, remove solution and entrapped soil with a dry, clean 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™ [microbicide][liquid] 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™ [microbicide][liquid] 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) and the US Environmental Protection Agency (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, boot coverings, full-face respirator with HEPA filter are the recommended personal protective equipment.

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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™ [microbicide][liquid] 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.

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.

STEP 2 Pre-clean the Surfaces

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

- **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 (e.g., rubber or plastic).

Cleaning Methods: Prior to applying PeridoxRTU™ [microbicide][liquid], 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™ [microbicide][liquid], 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 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™ [microbicide][liquid]. 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™ [microbicide][liquid] 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

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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 SEALED CINDER BLOCK**

Do not treat unpainted or unsealed concrete, unsealed masonry, or unsealed 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 sealed cinder block, after thorough drying and prior to applying PeridoxRTU™ [microbicide][liquid], 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™ [microbicide][liquid]. Dispose of the cleaning cloth in a well-sealed plastic bag.

For CARPET and TEXTILES: follow the appropriate pre-cleaning, solution preparation, and application instruction provided in this section.

Successful treatment of carpet and textiles requires that cleaning removes sufficient visible mold growth and that the material can be thoroughly moistened by PeridoxRTU™ [microbicide][liquid]. Heavily mold-infested carpet and textiles are difficult to adequately clean. If the carpet or textile are not readily accessible for application of PeridoxRTU™ [microbicide][liquid] 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 PeridoxRTU™ [microbicide][liquid] 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™ [microbicide][liquid] 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 with COOLING SYSTEMS of ventilation are encouraged. Please consult with your local county extension of EPA letter dated www.epa.gov/mold/moldresources.html for more information.

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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™ [microbicide][liquid] as part of a comprehensive area cleaning and treatment.

STEP 3 Apply PeridoxRTU™ [Microbicide] [Liquid] to the Affected Surfaces

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

Apply by wiping, brushing, mopping, pouring or spraying the PeridoxRTU™ [microbicide][liquid] using smooth back and forth motions to ensure complete coverage of the entire target area. Apply 25-40 ml of PeridoxRTU™ [microbicide][liquid] per square meter (0.5 - 1.4 fl oz. per square yard). Unpainted drywall may require application of a greater amount of PeridoxRTU™ [microbicide][liquid] per area. For painted or sealed concrete, masonry, or cinder block, additional product must be applied if the product is absorbed into the material.

Keep the surfaces wet for **1 minute**. Re-apply PeridoxRTU™ [microbicide][liquid] if the surfaces dry before **1 minute** contact time. After **1 minute** contact time, remove solution and entrapped soil with a dry, clean cloth or allow to air dry.

- **CARPET and TEXTILES:**

Apply by wiping, brushing, mopping, or pouring or by spraying the PeridoxRTU™ [microbicide][liquid] using smooth back and forth motions to cover the entire target area to ensure complete coverage, nominally apply 100-200 ml of PeridoxRTU™ [microbicide][liquid] per square meter (3.4 - 6.8 fl oz. per square yard) to carpet.

Keep the surfaces wet for **10 minutes**, re-apply PeridoxRTU™ [microbicide][liquid] to the surfaces if the surfaces dry before **10 minutes** contact time; then remove solution and entrapped soil with a dry, clean 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™ [microbicide][liquid] 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™ [microbicide][liquid] 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 with fans, dehumidifiers, heaters or other methods of ventilation to assist in the drying.

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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.

(One gal. or smaller container) If empty, wrap container and put in trash or offer for recycling, if available. If partly filled, call your 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.

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