

47371-131

5/7/2008

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Georgia Anastasiou  
Agent for H&S Chemicals Division c/o Lonza, Inc.  
Lewis & Harrison  
122 C Street, N.W., Suite 740  
Washington, D.C. 20001

MAY - 7 2008

SUBJECT: Formulation HWS-64  
EPA Registration Number: 47371-131  
Application Date: January 14, 2008  
Receipt Date: January 15, 2008

Dear Ms. Anastasiou:

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the conditions listed below:

**Conditions**

1. Delete the second set of Precautionary Statements on page two. A second set of statements is not in agreement with the Label Review Manual. The intention of use dilution precautionary language is not to allow dual set of statements, but to allow some modification of the Precautionary Statements for the diluted product.
2. Delete the word "Recommended" from the second statement on page three. Use of the word "recommended" in this statement is not in agreement with PR Notice 2000-5 which requires mandatory language. Revise this section to begin: "For use in hospitals, nursing homes..."
3. Revise page three by deleting the word Caution as it appears in the section on cleaning and disinfecting personal protective safety equipment. The Agency does not approve labels containing the terms "caution," "warning," or "danger" except as the Signal Word. Revise this section to be in agreement with the Label Review Manual and PR Notice 2000-5 as follows: "...to air dry before reuse. [Notice: *Cleaning at 120°F temperature will avoid...*"]"

## CONCURRENCES

SYMBOL	7510P						
SURNAME	J. Lopez						
DATE	5/6/08						

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

4. Delete the word "Recommended" from the first statement on page four. Use of the word "recommended" in these statements is not in agreement with PR Notice 2000-5 which requires mandatory language. Revise this statement to begin: "For use in:..."
5. Revise the list of organisms on page five by correcting *Salmonella choleraesuis* to read *Salmonella enterica*. Make this same revision to page eleven in the Bactericidal Stability of Use-Dilution Section.
6. Delete the reference to *Streptococcus pyogenes* as the cause of scarlet fever. You may keep the claim for *Streptococcus pyogenes* but delete the reference to scarlet fever. This claim is misleading as scarlet fever is an immune reaction and not directly caused by this organism.
7. At your next label amendment, revise pages five and six to list the ATCC number associated with each of the organisms tested.
8. Revise page six to indicate that the terms "[Influenza][Influenza Virus][Flu][Flu Virus]" may only be used in association with the organism Influenza A/Hong Kong. Revise your label language to state this message.
9. Revise page eight by adding the following statement and to delete the statements which are misleading: "Kills (Effective against) (99.9% of) Influenza A that causes the flu." Delete: "Kills (Effective against) (99.9% of) germs that cause cold and flu (viruses)." and "Kills the virus[es] that cause[s] the [common] cold[s] and/or flu." and "Influenza A/Hong Kong {Influenza}[Influenza Virus] [Flu] [Flu Virus] Rotavirus [WA]." The Agency has not made a determination at this time as to whether Rotavirus is associated with the common cold.
10. Revise page eight to be in agreement with the letter issued by the Agency regarding the use of the NSF Logo as follows. Delete the NSF symbol which is associated with a registration number. Delete "(insert category code here)".
11. Qualify the "Outdoor furniture" claim on page nine to include "except cushions and wood frames". Also on page nine, delete the claim for treatment of "Rescue Tools" as this use is too broad/not clearly defined.
12. Revise the Cleaning and Disinfecting Hard Nonporous surfaces on Personal Protective Equipment (Respirators) on page twelve such that the last statement reads: "...for cleaning and respiratory protection *equipment* (29 CFR..."
13. Revise the "Kills HIV-1 (AIDS Virus) section on page twelve to read: "...and HCV (Hepatitis C Virus) on precleaned..."

## CONCURRENCES

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

14. Under "Personal Protection" of HIV directions on page ten, revise the statement by deleting "or" and stating "and" such that the statement reads, "Disposable protective gloves, gowns, face masks *and* eye coverings..."
15. Delete the word "Recommended" from the fifth statement on page fourteen. Use of the word "recommended" in this statement is not in agreement with PR Notice 2000-5 which requires mandatory language.
16. Revise the directions for Veterinary Practice on page fifteen to be in agreement with DIS/TSS 18 by adding the following statement: *"Immerse all animal handling and restraining equipment as well as forks, shovels and scrapers used to remove litter and manure."*
17. Delete the reference to treatment of upholstery and mattresses at the top of page sixteen as your label does not include directions for these uses.
18. Revise the Air Freshener/Automotive Uses section on page sixteen to begin as follows: "8 oz. per gallon of water will effectively..." by deleting the reference to "or desired concentration" as your label may not include open ended directions without a clear use rate. Make this same change to the directions for the treatment of pet odors and sewage backup, water smoke damage on the same page.
19. The following MRIDs are being used to support the precautionary labeling for the product when diluted according to the label directions. Acute Oral: 472956-02, Acute Dermal: 472956-03, Acute Inhalation: 414227-01, Primary Eye Irritation: 472956-04, Primary Skin Irritation: 472956-05, and Dermal Sensitization: 472956-06.

Based on this data, revise the secondary container label for the use dilution on page twenty such that the Precautionary Language reads exactly as follows:  
*"CAUTION: Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the restroom. Remove and wash contaminated clothing before reuse."*

**General Comments**

A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3 (c) (5) and section 4 (a) when the Agency requires all registrants of similar products to submit such data.

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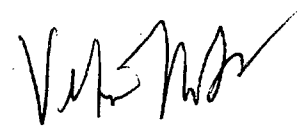
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Thank you for submitting your label electronically. This label has been accepted with comments, but we would like to keep a clean version with the changes in our files electronically. Please make the changes indicated in this letter and e-mail the revised label to me at Lantz.tracy@epa.gov

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6 (e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510P)

Enclosure: Stamped label  
7510P:T.Lantz:5/1/08:47371-131

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# FORMULATION HWS-64

## ONE-STEP DISINFECTANT

### GERMICIDAL DETERGENT AND DEODORANT

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY - 7 2008

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 47371-131

Disinfectant  
Pseudomonacidal  
Staphylocidal  
Salmonellacidal  
Bactericidal  
Fungicidal  
Mildewstatic  
\*Virucidal

FLORAL / CITRUS / FRESH / CLEAN / LEMON / PINE / MINT (scent) (fragrance) (odor)  
(scented)

#### Active Ingredients:

Didecyl dimethyl ammonium chloride.....2.54%  
n-Alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10%)  
dimethyl benzyl ammonium chloride.....1.69%  
Inert Ingredients:.....95.77%  
Total:.....100.00%

KEEP OUT OF REACH OF CHILDREN

**DANGER**

See (right) (left) (side) (back) panel for Precautionary Statements and First Aid

EPA Reg. No. 47371-131  
EPA Est. No. (insert Est. No. here)  
NET CONTENTS (insert container size here)

H&S CHEMICALS DIVISION  
c/o LONZA INC.,  
90 Boroline Road  
Allendale, NJ 07401

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** Corrosive. Causes irreversible eye damage. Do not get in eyes or clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Avoid contact with the skin. Harmful if inhaled. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

*(Note to reviewer: When diluted the following precautionary statements will apply)*

~~**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**~~

~~Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.~~

**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 eye.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.

Call a poison control center or doctor for treatment advice.

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

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

*(Note to reviewer: If container size is 5 gallons or greater, use the following Environmental Hazards statements:)*

**ENVIRONMENTAL HAZARDS**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

(Note to reviewer: The following is considered optional marketing language:)

- Concentrate (Concentrated)
- Neutral (Neutral pH)
- Disinfects (Disinfectant)
- Cleans (Cleaner)
- Deodorizes (Deodorizer)

A multi-purpose, neutral pH, germicidal detergent and deodorant effective in hard water up to 400 ppm (calculated as  $\text{CaCO}_3$ ) in the presence of a moderate amount of soil (5% organic serum) according to the AOAC Use-dilution Test. Disinfects, cleans and deodorizes in one labor-saving step.

~~Recommended~~ for use in hospitals, nursing homes, schools, colleges, commercial and industrial institutions, office buildings, veterinary clinics, animal life science laboratories, zoos, federally inspected meat and poultry establishments, equine farms, tack shops, pet shops, airports, kennels, hotels, motels, poultry farms, turkey farms, dairy farms, hog farms, breeding establishments, grooming establishments, funeral homes and households.

Disinfects, cleans, and deodorizes the following hard, nonporous, inanimate surfaces: floors, walls, (*non-medical*) metal surfaces, (*non-medical*) stainless steel surfaces, glazed porcelain, plastic surfaces (such as polypropylene, polystyrene, acrylic, etc.).

Use [on] [to clean and disinfect] nonporous athletic mats, wrestling mats, gymnastic mats, exercise equipment and training tables.

Use [on] [to clean and disinfect] nonporous personal protective safety equipment, wrestling headgear, boxing headgear, protective headgear, athletic helmets, hard hats, half mask respirators, full face breathing apparatus, gas masks, goggles, spectacles, face shields, hearing protectors, and ear muffs. Rinse all equipment that comes in prolonged contact with skin with warm water and allow to air dry before reuse. [~~Caution~~: Cleaning at the recommended 120°F. temperature will avoid overheating and distortion of the personal safety equipment that would necessitate replacement.]

For use in [*insert name of automated dilution system here*] (automated) (dilution system).

~~Recommended~~ for use in:

- Federally inspected meat and poultry plants on all hard, nonporous surfaces in inedible product processing areas, non-processing areas and/or exterior areas. All surfaces must be thoroughly rinsed with potable water.
- Federally inspected meat and poultry plants as a floor and wall cleaner for use in all departments. Food products and packaging material must be removed from the room or carefully protected. All surfaces must be thoroughly rinsed with potable water.
- Federally inspected meat and poultry plants, as a disinfectant agent for use in all departments. Food products and packaging materials must be removed from the room or carefully protected. Use product in accordance with its label. All surfaces must be thoroughly rinsed with potable water.

For use in tanning salons.

For use on (tanning beds), (and) (tanning equipment).

**Formulation HWS-64** is effective at controlling mold and mildew odor on mattresses, pillows and shower curtains.

Use **Formulation HWS-64** in the laundry to control odors on musty bedding and linens. Test on a small inconspicuous area before using.

Use **Formulation HWS-64** on mildew stains in damp areas such as bathrooms, showers, kitchens, basements and laundry rooms.

Use **Formulation HWS-64** in work areas such as tool rooms and garages for odor control and light duty cleaning.

Use **Formulation HWS-64** to remove odors caused by flooding and smoke from fires.

**Formulation HWS-64** leaves a clean fresh scent.

**Formulation HWS-64** provides long lasting freshness against tough (pet) odors from litter boxes and pet accidents.

**Formulation HWS-64** (Kills) (Eliminates) (Removes) (Destroys) avian influenza A (H5N1) on pre-cleaned environmental surfaces

**Formulation HWS-64** (Kills) (Eliminates) (Removes) (Destroys) *[Insert pathogen or pathogens from lists on pages 5 and 6]* on (pre-cleaned) environmental surfaces

**Formulation HWS-64** (Kills) (Eliminates) (Removes) (Destroys) (Germs) (Bacteria) (Viruses\*) (on (pre-cleaned) environmental surfaces)

(Note to reviewer: The following is considered optional marketing language.)

Effective against the following pathogens:

(Bacteria:)

*Pseudomonas aeruginosa*<sup>1</sup>

*Staphylococcus aureus*<sup>1</sup>

*Salmonella choleraesuis*

*Acinetobacter calcoaceticus*

*Bordetella bronchiseptica*

*Chlamydia psittaci*

Community Associated Methicillin-Resistant *Staphylococcus aureus* - [CA-MRSA] (NRS384) (USA300)

Community Associated Methicillin-Resistant *Staphylococcus aureus* - [CA-MRSA] (NRS123) (USA400)

*Enterobacter aerogenes*

*Enterobacter cloacae*

*Enterococcus faecalis* - Vancomycin Resistant (VRE)

*Escherichia coli*<sup>1</sup>

*Fusobacterium necrophorum*

*Klebsiella pneumoniae*<sup>1</sup>

*Legionella pneumophila*

*Listeria monocytogenes*

*Pasteurella multocida*

*Proteus mirabilis*

*Proteus vulgaris*

*Salmonella enteritidis*

*Salmonella typhi*

*Salmonella typhimurium*

*Serratia marcescens*

*Shigella flexneri*

*Shigella sonnei*

*Staphylococcus aureus* -Methicillin resistant – (MRSA)

*Staphylococcus aureus*-Vancomycin Intermediate Resistant – (VISA)

*Staphylococcus epidermidis*<sup>2</sup>

*Streptococcus faecalis*<sup>1</sup>

*Streptococcus pyogenes* [Strep]

~~[a cause of scarlet fever]~~

<sup>1</sup> ATCC & antibiotic-resistant strain

<sup>2</sup> antibiotic-resistant strain only

*(Viruses:)*

- \*Adenovirus Type 4
- \*Adenovirus Type 7 - at 8 oz. per gallon  
(Note for Reviewer: 8 oz. per gallon dilution disinfection directions must be used if Adenovirus Type 7 is listed on the label)
- \*Hepatitis B Virus (HBV)
- \*Hepatitis C Virus (HCV)
- \*Herpes Simplex Type 1
- \*Herpes Simplex Type 2
- \*Human coronavirus
- \*HIV-1 (AIDS virus)
- \*Influenza A / Hong Kong [Influenza] [Influenza Virus] [Flu] [Flu Virus]
- \*Rotavirus [WA]
- \*Respiratory Syncytial Virus (RSV)
- \*Rubella (German Measles)
- \*SARS Associated Coronavirus [SARS] [cause of Severe Acute Respiratory Syndrome]
- \*Vaccinia [Pox virus]

*(Animal viruses:)*

- \*Avian Influenza (H5N1)
- \*Avian polyomavirus
- \*Canine parvovirus - at 8 oz. per gallon
- \*Canine distemper
- \*Feline leukemia
- \*Feline picornavirus
- \*Infectious bovine rhinotracheitis
- \*Infectious bronchitis (Avian IBV)
- \*Newcastle Disease
- \*Pseudorabies (PRV)
- \*Rabies
- \*Transmissible Gastroenteritis virus (TGE)

*(Fungi:)*

- Aspergillus niger
- Candida albicans
- Trichophyton mentagrophytes [Athlete's Foot Fungus] [a cause of Ringworm] [a cause of Ringworm of the foot]]

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<b>(AREAS OF USE:)</b>	
<b>Use Formulation HWS-64 in:</b>	
Bathrooms	Factories
Homes (households)	Hotels
Kitchens	Institutional facilities
	Institutions
Clinics	Locker rooms
Dental offices	Morgues
Health Care Facilities	Mortuaries
Hospitals	Motels
Medical Offices	Prisons
Medical Related Facilities	Public facilities
Nursing homes	Public rest rooms
Sick Rooms	Schools
	Shower and bath areas
Day care centers	Salons (Beauty)
Nurseries	Tanning Salons
Bars	Camp grounds
Cafeterias	Play ground equipment
Convenience stores	
Food processing plants	Animal laboratories
Food storage areas	Dairy farms
Institutional kitchens	Farms
Restaurants	Hog Farms
USDA inspected food processing facilities	Kennels
	Poultry farms
Athletic facilities	Pet animal quarters
Barber shops	Pet shops
Business and office buildings	Turkey farms
Colleges	Zoos
Correctional facilities	
Dressing rooms	
Exercise facilities	

(Note to reviewer: The following is considered optional marketing language.)

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<b>(AREAS OF USE:)</b> Use Formulation HWS-128 in:	
Airplanes	Mobile homes
Airports	Ships
Ambulances	Taxis
Boats	Trailers
Buses	Trains
Campers	Transportation terminals
Cars	Trucks (Box Trucks)
Emergency (Police) (EMS) (Fire) (Rescue) vehicles	

Kills (Effective against) (99.9% of) ~~germs<sup>1</sup> that cause cold and flu (viruses)~~  
~~Kills the virus[es] that cause[s] the [common] cold[es] and/or flu<sup>1</sup>~~

~~<sup>1</sup>Influenza A / Hong Kong [Influenza] [Influenza Virus] [Flu] [Flu Virus]  
 Rotavirus [WA]~~

(Note to reviewer. The following may be used only if the supplemental registrant has obtained an NSF listing. Allowed on back or side panel only.)



or



or



(NSF Listed)

~~(insert Category code here)~~

(insert 6-Digit NSF Listing Number here)

(Note to reviewer: The following is considered optional marketing language.)

<b><u>(TYPES OF SURFACES:)</u></b>	
Use Formulation HWS-128 on washable hard, nonporous surfaces of:	
Appliances, exteriors of	Sealed limestone
Bathroom fixtures	Sealed marble
Bathtubs (Fiberglass)	Sealed slate
Cabinets	Sealed stone
Cages	Sealed terra cotta
Chairs	Sealed terrazzo
Coils and drain pans of air conditioning and refrigeration equipment and heat pumps	Stainless steel
Conductive flooring	Upholstery, vinyl and plastic
Counters (countertops)	Woodwork, finished
Countertop laminates	
Desks	Non-critical medical device surfaces:
Doorknobs	Beds [Medical] [Hospital]
Floors	Bed frames
Garbage cans	Bed rails
Highchairs	Crutches
Kennel runs	Defibrillators
Microwave ovens, exteriors of	Gurneys
Outdoor furniture	Non-critical [hospital] [medical] equipment surfaces
Refrigerators, exteriors of	[Medical] Examining tables
Refrigerated storage and display equipment	[Medical] [Hospital] Lamps
Telephones	[Medical] [Hospital] Scales
Other hard nonporous surfaces made of:	<del>Rescue tools</del>
Glazed ceramic	Resuscitators
Glazed enameled surfaces	Stands
Glazed porcelain	Stretchers
Laminated Surfaces	Stethoscopes
Metal	Walkers
Plastic (such as polystyrene or polypropylene)	Wheel chairs
Sealed granite	

(Note to reviewer: The following is considered optional marketing language.)

**(AREAS OF USE:)**

**DIRECTIONS FOR USE**

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

**PELIGRO:** SI NO PUEDE LEER EN INGLES, PREGUNTE A SU SUPERVISOR SOBRE LAS INSTRUCCIONES DE USO APROPIADAS ANTES DE TRABAJAR CON ESTE PRODUCTO.

DILUTION: 1:64 (660 ppm quat)	2 ounces per gallon of water
	4 ounces per 2 gallons of water
	8 ounces per 4 gallons of water
	10 ounces per 5 gallons of water
	12 ounces per 8 gallons of water

*(Note for reviewer: For labels that list medical premises and metal and / or stainless steel surfaces, one of the following statements must be used:)*

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 devices prior to sterilization or high-level disinfection.

*(or)*

This product is not for use on medical device surfaces.

**DISINFECTION / CLEANING / DEODORIZING DIRECTIONS:** Remove heavy soil deposits from surface, then thoroughly wet surface with a use-solution of 2 ounces of the concentrate per gallon of water. (Use 8 oz per gallon of water to kill Adenovirus Type 7). The use-solution can be applied with a cloth, mop, sponge, or coarse spray or by soaking. For sprayer applications, use a coarse spray device. Spray 6-8 inches from the surface, rub with a brush, cloth or sponge. Do not breathe spray. Let solution remain on surface for a minimum of 10 minutes. Rinse or allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished.

*(Note for reviewer: One of the following statements must be used:)*

Food contact surfaces must be thoroughly rinsed with potable water. This product must not be used to clean the following food contact surfaces: utensils, glassware and dishes.

*(or)*

This product is not for use on food contact surfaces.

*(Note to reviewer: one of the following two statements will be used:)*

**BACTERICIDAL STABILITY OF USE-DILUTION:** Tests confirm that Formulation HWS-64, when diluted in 400 ppm hard water (via use of automatic dispensing devices), remains effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Salmonella choleraesuis* for (up to 7 days) (for up to one week) (for up to one month) (for up to 2 months) (for up to 3 months) (up to 4 months) (up to 5 months) (up to 6 months) (up to 7 months) (up to 8 months) (up to 9 months) (up to 10 months) (up to 11 months) (up to 12 months) (up to one year) when stored in a sealed container such as a spray bottle. If product becomes visibly dirty or contaminated, the use-dilution must be discarded and fresh product prepared. Always use clean, properly labeled containers when diluting this product. Bactericidal stability of the use-dilution does not apply to open containers such as buckets or pails.

(or)

Prepare a fresh use-solution daily or more often if the solution becomes visibly dirty or diluted.

**TOILET BOWLS [ / URINALS]:** Swab bowl with brush to remove heavy soil prior to cleaning or disinfecting. Clean by applying use-solution around the bowl and up under the rim. Stubborn stains may require brushing. To disinfect, first preclean to remove heavy soil, then remove or expel over the inner trap the residual bowl water. Pour in three ounces of the diluted solution. Swab the bowl completely using a scrub brush or mop, making sure to get under rim. Let stand for 10 minutes or overnight, then flush.

**FUNGICIDAL DIRECTIONS:**

For use in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities follow disinfection directions.

**MILDEWSTATIC INSTRUCTIONS:** Will effectively control the growth of mold and mildew, plus the odors caused by them when applied to hard, nonporous surfaces such as walls, floors and table tops. Apply use-solution of 2 ounces per gallon of water with a cloth, mop, sponge or coarse spray. Make sure to wet all surfaces completely. Let air dry. Repeat application weekly or when growth reappears.

**To control the growth of mold and mildew on large inflatable non-porous plastic and rubber structures (animals, promotional items, moonwalks, obstacle course play and exercise equipment):** Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 2 ounces per gallon of water with a cloth, mop, sponge, or coarse spray. Make sure to wet all surfaces completely. Let air dry. Repeat application weekly or when growth reappears. Ventilate buildings and enclose spaces. Do not use equipment until treatment has been absorbed, set or dried.

**CLEANING AND DISINFECTING HARD NONPOROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORS):**

Preclean equipment if heavily soiled to ensure proper surface contact. Add 2 oz. of Formulation HWS-64 to one gallon of water. (Use 8 oz per gallon of water to kill Adenovirus Type 7). Gently mix for a uniform solution. Apply solution to hard, nonporous surfaces of the respirator with a brush, coarse spray device, sponge, or by immersion. Thoroughly wet all surfaces to be disinfected. Treated surfaces must remain wet for 10 minutes. Remove excess solution from equipment prior to storage. Comply with all OSHA regulations for cleaning respiratory protection (29 CFR §1910.134).

**\*KILLS HIV-1 (AIDS VIRUS) AND HBV (HEPATITIS B VIRUS) AND HCV (HEPATITIS C VIRUS) OF PRECLEANED, ENVIRONMENTAL SURFACES / OBJECTS PREVIOUSLY SOILED WITH BLOOD / BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood / body fluids, and in which the surfaces / objects likely to be soiled with blood / body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type I (HIV-1) (associated with AIDS) or Hepatitis B Virus (HBV) or Hepatitis C Virus (HCV).

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 (AIDS VIRUS) OR HBV OR HCV OF SURFACES / OBJECTS SOILED WITH BLOOD / BODY FLUIDS:**

**Personal Protection:** Disposable protective gloves, gowns, face masks ~~X~~ eye coverings, as appropriate, must be worn during all cleaning of blood / body fluids and during decontamination procedures.

**Cleaning Procedures:** Blood / body fluids must be thoroughly cleaned from surfaces / objects before application of disinfectant.

**Contact Time:** HIV-1 (AIDS virus) is inactivated after a contact time of 4 minutes at 25°C (77°F) (room temperature). HBV and HCV are inactivated after a 10 minute contact time. Use a 10-minute contact time for other viruses, fungi and bacteria listed.

**Disposal of Infectious Materials:** Blood / body fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

**SALON (BARBER) INSTRUMENTS AND TOOLS DISINFECTION (BACTERICIDE) / VIRUCIDE / FUNGICIDE DIRECTIONS:**

Mix 2 oz. of Formulation HWS-64 per gallon of water (or equivalent dilution) to disinfect hard, nonporous instruments and tools. (Use 8 oz per gallon of water to kill Adenovirus Type 7). Completely immerse combs, brushes, rollers, razors, scissors, blades, manicure and other salon instruments and tools for 10 minutes. For heavily soiled instruments and tools, a preliminary cleaning is required. Rinse thoroughly and dry before use. Prepare a fresh solution daily or more often if the solution becomes visibly diluted, cloudy or soiled.

**Note:** Plastics may (can) remain immersed until ready to use. Stainless steel shears and instruments must be removed after 10 minutes, rinsed, dried and kept in a clean, non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.

**DISINFECTION OF HARD, NON-POROUS SURFACES IN FOOTBATHS**

To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the footbath, drain the water and thoroughly clean all hard, non-porous surfaces with soap or detergent, then rinse with water. Saturate surfaces with a use solution of 2 oz. per gallon of water (or equivalent use dilution) to exposed surfaces with a cloth, mop, sponge or sprayer. (Use 8 oz per gallon of water to kill Adenovirus Type 7). For spray applications, use a coarse spray device. Do not breathe spray. Brush or swab thoroughly and allow solution to stand for 10 minutes. After the unit has been thoroughly disinfected, rinse all surfaces with fresh water. Do not use equipment until treatment has been absorbed, set or dried.

**CLEANSING OF BODY SURFACES AND BODY ORIFICES OF HUMAN REMAINS:** This product removes body secretions, soil, and blood, along with their accompanying malodor, from the surfaces and orifices of human remains. Using a sponge or washcloth, bathe the entire body with a use-solution of 2 ounces per gallon of water. (Use 8 oz per gallon of water to kill Adenovirus Type 7). A soft handbrush may be employed on surfaces other than the face. Use fresh solution for each (cadaver) remains or when solution becomes visibly dirty or diluted.

**FARM PREMISE, LIVESTOCK, POULTRY & TURKEY HOUSE DISINFECTANT**

DILUTION: 1:64      2 ounces per gallon of water

(Use 8 oz per gallon of water to kill Adenovirus Type 7).

1. Remove all animals and feeds from premises, trucks, coops, crates and enclosures.
2. Remove all litter and manure from floors, walls, and surfaces of barns, pens, stalls, chutes, vehicles, and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks, and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent, then rinse with water.
5. Saturate all surfaces with the ~~recommended~~ disinfecting solution for a period of 10 minutes.
6. 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.
7. Ventilate buildings, coops, cars, trucks, boats and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.
8. After treatment with disinfectant, thoroughly scrub feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent, then rinse with potable water before reuse.

**VETERINARY PRACTICE / ANIMAL CARE / ANIMAL LABORATORY / ZOOS / PET SHOP / KENNELS DISINFECTION DIRECTIONS:**

For cleaning and disinfecting hard nonporous surfaces: equipment used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animals and feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Empty all feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 2 oz. of **FORMULATION HWS-64** per gallon of water (*or equivalent dilution*) for a period of 10 minutes. (Use 8 oz per gallon of water to kill Adenovirus Type 7). Wipe or allow to air dry. Ventilate buildings and other closed spaces. Thoroughly scrub all treated surfaces that come into contact with food, including equipment used for feeding or watering, with soap or detergent and rinse with potable water before reuse. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

**For Heavy Duty Cleaning and / or Odor Control:** When greater cleaning is desired, use 4 - 8 oz. of Formulation HWS-64 per gallon of water. Heavily soiled areas may require repeated cleaning before treatment.

**FOR CANINE PARVOVIRUS ACTIVITY:**

Formulation HWS-64 is effective against Canine Parvovirus at 8 oz. per gallon. Follow Veterinary Practice / Animal Care / Animal Laboratory / Zoos / Pet Shop / Kennels Disinfection Directions.

**CITRUS CANKER DISEASE CONTROL**

For prevention of Citrus Canker Disease through treatment of equipment. Effective against *Xanthomonas axonopodis* pv. *citri* (Citrus Canker Disease) at 2000 ppm active quat. Treatments can be applied to trucks, attached trailers, and field equipment including cargo area, wheels, tires, undercarriage, hood, roof, fenders, and any other hard nonporous equipment taken into infested areas. Saturate surfaces with a 1:21 use-dilution (24¼ oz. per 4 gallons of deionized water) (*or equivalent dilution*) (2000 ppm active quat) for a period of 10 minutes. Allow to air dry. All surfaces that come in contact with food or crop must be rinsed with potable water before reuse. To prevent the spread of Citrus Canker Disease by this artificial means of transportation, treatments are made by trigger spraying, dipping or brushing. Thoroughly rinse or launder clothing before reuse. Rinse footwear before reuse.

**Formulation HWS-64** is effective at eliminating odors on porous surfaces such as ~~upholstery~~, drapes, carpets, bedding, shower curtains, ~~mattresses~~ and non-porous surfaces such as walls and floors. Excellent for fire restoration.

Other suggested Uses: Homes, Veterinary Clinics, Fish Markets, Kennels, Trash Compactors, Offices, Beauty Salons, Locker Rooms, Health Spas, Conference rooms, Elevators, Smoking Areas, Lounges, Day Care Centers, Dry Cleaners, Theaters, Farms, Auditoriums and Churches.

**Deodorizing directions:**

**Nursing Homes, Hospitals, Hotels, Schools, Restaurants:** Using 2 oz. in chemical toilets, waste receptacles, bed pans, drainage bottles, diaper pails, hampers, disposals, commodes and air conditioner pans will eliminate odors.

**Mopping Solutions, Automatic Scrubbers:** Use 2 oz. per gallon of cleaning solution to eliminate undesirable odors.

**Laundry:** 2 oz. per load added during the final rinse cycle deodorizes all offensive odors.

**Air Freshener/Automotive Uses:** 8 oz. per gallon of water ~~or desired concentration~~ will effectively neutralize damp musty odors caused by mildew in storage areas, basements, closets and bathrooms. Effective on smoking and cooking odors (garlic, fish, onions, etc.). Automobile odors from tobacco, musty carpet smell and beverage smells will be eliminated.

**Carpets:** 2 oz. per gallon of shampoo solution eliminates odors associated with urine, vomit, smoke, and mildew. Reapply after cleaning for freshening effects. Allow to dry.

**RV Holding Tanks:** Toilet waste: cover bottom of holding tank with water and add 2 oz. If odors return before time to empty, simply add 2 oz. to the tank. Kitchen waste: 2 oz. of **Formulation HWS-64** to gray water tank as needed to control malodors created by dirty dish water.

**Pet Odors:** Use 8 - 12 oz. per gallon of water ~~or desired concentration~~, for urine, feces, and vomit, in carpet and upholstery. Clean prior to application then spray onto affected areas. Test hidden area for colorfastness. Allow 10 minutes contact time. Then blot with clean cloth. Allow to dry. Also effective on pet bedding and litter boxes.

**Sewage Backup, Water, Smoke Damage:** Use 2 - 4 oz. per gallon of water ~~or desired concentration~~. Spray over affected areas before and after cleaning and extraction. Allow ten minutes contact time. Use proper ventilation; open windows.

**Cleaning Solution:** Dilute 2 oz. per gallon of water for cleaning of kitchen counters, tables, walls, bathrooms, toilet seats, mopping floors and large routine applications.

**WATER, SMOKE DAMAGE RESTORATION AGAINST ODOR-CAUSING BACTERIA AND FUNGI FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE:**

This product is particularly suitable for use in water damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushions, subfloors, drywall, concrete, brick, trim and frame lumber, tackless strip and paneling. Using appropriate dilution, saturate the affected materials with enough product to remain wet for at least 10 minutes.

**Sewer Backup and River Flooding:** During mitigation procedures, dilute 2 oz. of the concentrate per gallon of water, allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affected areas with a coarse spray device before and after cleaning and extraction. **Carpets, Carpet Cushions and Other Porous Materials such as Subfloors, Drywall, Concrete, Brick, Trim and Frame Lumber, Tackless Strip and Paneling:** For water damage from a clean source, extract excess water. Test hidden area for colorfastness. Dilute 2 oz. of the concentrate per gallon of water, allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Saturate all affected areas with a coarse spray device. Roll, brush or agitate into the materials and allow materials to remain wet for 10 minutes. Follow with a thorough extraction. Dry rapidly and thoroughly.

**Special instructions For Cleaning Carpet Against Odor Causing Bacteria:** Use this product in industrial and institutional areas such as homes, motels, hotels, nursing homes, schools, and hospitals. Use on wet-cleanable synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for colorfastness. **For portable extraction units:** Mix 2 oz. of concentrate per gallon of water. **For truck mounted extraction machines:** Mix 2 - 4 oz. of concentrate per gallon of water and meter at 4 gallons per hour. **For rotary floor machines:** Mix 2 oz. of concentrate per gallon of water and apply at the rate of 300 - 500 sq. ft. per gallon. Do not mix this product with other cleaning products. Follow the cleaning procedures specified by the manufacturer of the cleaning equipment. After using the product, set the carpet pile and protect the carpet from furniture legs and bases while drying. Do not over-wet. If applied to stain resistant nylon carpet, apply a fabric protector according to the manufacturer's directions.

(Note to reviewer: If container size is one gallon or less, the following Storage and Disposal directions will be used:)

#### STORAGE AND DISPOSAL

Store in original container in areas inaccessible to children. Do not reuse empty container. (Wrap and) Discard in trash or recycle.

(Note to Reviewer: For Nonrefillable Containers.)

Nonrefillable container

(Note to reviewer. One of the following statements must be used for Nonrefillable Containers.)

Do not reuse or refill this container

OR (Only if the label does not include household/residential use)

Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.

(Note to reviewer. One of the following statements must be used for Refillable Containers.)

Refillable Container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

OR

Refillable Container. Refill this container with [this product] only. Do not reuse this container for any other purpose."

(Note to reviewer: If container size is greater than one gallon, the following Storage and Disposal directions will be used:)

### STORAGE AND DISPOSAL

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

#### Pesticide Storage

Store in original container in areas inaccessible to children. Open dumping is prohibited. Do not reuse empty container.

#### Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### Container Disposal

(Plastic containers:) Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by state and local authorities, burn. If burned, stay out of smoke.

(Fiber Drums With Liner:) Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment, then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

(Metal Container:) Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or dispose of by other procedures approved by state and local authorities.

(For Bag-in-Box Containers:) Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities by burning or dispose of by other procedures approved by state and local authorities. If burned, stay out of smoke.

(Note to Reviewer: For Nonrefillable Containers.)

Nonrefillable container

(Note to reviewer. One of the following statements must be used for Nonrefillable Containers.)

Do not reuse or refill this container

OR (Only if the label does not include household/residential use)

Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.

(Note to reviewer. One of the following statements must be used for Refillable Containers.)

Refillable Container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

OR

Refillable Container. Refill this container with [this product] only. Do not reuse this container for any other purpose."

**SECONDARY CONTAINER LABEL**

*(Note to reviewer: This secondary container label will be used only when the product is diluted in accordance with the use directions)*

**FORMULATION HWS-64**

(EPA Reg. No. 47371-131)

**Active Ingredients:**

Didecyl dimethyl ammonium chloride.....2.54%

n-Alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10%)

dimethyl benzyl ammonium chloride.....1.69%

Inert Ingredients:..... 95.77%

Total: .....100.00%

The product in this container is diluted as directed on the pesticide product label.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION****PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Follow the directions for use on the pesticide label when applying this product