### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AUG 3 0 2006

Mr. Robert J. Sloan Sr. Regulatory Services Associate Lonza, Inc. 90 Boroline Road Allendale, NJ 07401

Subject:

Formulation HWS-32

EPA Registration Number 47371-192

Application Date Aril 12, 2006 EPA Received Date April 14, 2006

Dear Sloan:

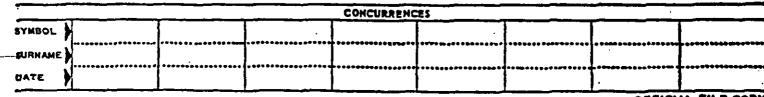
The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended is acceptable with the following comment:

### **Proposed Amendments:**

Amendment

### **Efficacy Review Comments:**

- 1. The proposed label claims that the product, HWS-32, is effective disinfectant with virucidal activity against SARS Associated Coronavirus at a dilution of 4 oz. product per gallon of water on hard, non-porous surfaces with a contact time of 10 minutes. This claim is acceptable.
- The proposed label claims that the product, HWS-256, is an effective disinfectant with virucidal activity against Adenouvirus type 7 at a use dilution of 16 oz. per gallon of water on hard, on-porous surfaces with a contact time of 10 minutes. This claim is <u>currently unacceptable</u>. The use dilution given on the proposed label for general disinfection is 4 oz. per gallon. The agency does not allow claims for multiple organisms at varying dilutions. The user of the product will not know if they have Adenovirus Type 7 as opposed to Adenovirus Type 4 or others, and is likely to use the product at general dilution instructions. If you want to maintain a claim against Adenovirus Type 7 at 16 oz. per gallon, then this must become the use dilution for all viruses listed on the label.



EPA Form 1320-1A (1/90)

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3. The proposed label (page 3, left column) has added the claim "{cause of Scarlet fever}" behind Streptococcus pyogenes. This claim is misleading and must be deleted. The actual cause of Scarlet fever is an immune reaction, and is not directly caused by this organism.

### **General Comments:**

A stamped copy of the acceptable labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact Drusilla Copeland at (703) 308-6224.

Veima Noble

Product Manager (31)

Regulatory Management Branch I Antimicrobials Division (7501C)

Enclosure: The first of the same state of the sa

## PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER. Corrosive. Causes irreversible eve 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. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

### **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 eve.

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.

### FORMULATION HWS-32

### ONE-STEP DISINFECTANT

### GERMICIDAL DETERGENT AND DEODORANT

Disinfectant Staphylocidal Bactericidal

Mildewstatic

Pseudomonacidal Salmonellacidal

Fungicidal

\*Virucidal

FLORAL / CITRUS / FRESH / CLEAN / LEMON / PINE / MINT [scent] [fragrance] [odor] [scented]

Active Ingredients:

Didecyl dimethyl ammonium chloride ...... 1.27% n-Alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10%) dimethyl benzyl ammonium chloride...... 0.85% Other Ingredients: ...... 97.88%

### KEEP OUT OF REACH OF CHILDREN

## DANGER

See [right] [left] [side] [back] panel for Precautionary Statements and First Aid

EPA Reg. No. 47371-192 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

accepted

Under the Pederal Insecticide. "ungicide, and Rodenticide Act as amended, for the pesticide, equered under EPA Reg. No. 4737/-192

Formulation HWS-32 EPA Reg. No. 47371-192 EPA Stamped Label 4-4-06

(Note to reviewer: Language in [ ] is optional or interchangeable)

(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 CaCO<sub>3</sub>) 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, 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.]

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.

Recommended for use in tanning salons.

Recommended for use on [tanning beds], [and] [tanning equipment].

Formulation HWS-32 is effective at controlling mold and mildew odor on mattresses, pillows and shower curtains.

Formulation HWS-32 can be used in the laundry to control odors on musty bedding and linens. Test on a small inconspicuous area before using.

**Formulation HWS-32** may be used on mildew stains in damp areas such as bathrooms, showers, kitchens, basements and laundry rooms.

Formulation HWS-32 may be used in work areas such as tool rooms and garages for odor control and light duty cleaning.

**Formulation HWS-32** may be used to remove odors caused by flooding and smoke from fires.

Formulation HWS-32 leaves a clean fresh scent.

Formulation HWS-32 provides long lasting freshness against tough (pet) odors from litter boxes and pet accidents.

Effective against the following pathogens:

[Bacteria:]

Pseudomonas aeruginosa<sup>1</sup>

Staphylococcus aureus<sup>1</sup>

Salmonella choleraesuis

Acinetobacter calcoaceticus

Bordetella bronchiseptica

Chlamydia psittaci

Enterobacter aerogenes

Enterobacter cloacae

Enterococcus faecalis-Vancomycin Resistant [VRE]

Escherichia coli<sup>1</sup>

Fusobacterium necrophorum

Klebsiella pneumoniae

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 [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 16 oz. / gallon)

\*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

\*Respiratory Syncytial Virus (RSV)

\*Rubella (German Measles)

\*SARS Associated Coronavirus [SARS] [cause of Severe Acute Respiratory Syndrome]

\*Vaccinia [Pox virus]

[Animal viruses:]

\*Avian polyomavirus

\*Canine distemper

\*Canine parvovirus - at 16 oz. per gallon

\*Feline leukemia

\*Feline picornavirus

\*Infectious bovine rhinotracheitis

\*Infectious bronchitis [Avian IBV]

\*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

Formulation HWS-32 EPA Reg. No. 47371-192 EPA Stamped Label 4-4-06 (Note to reviewer: Language in [ ] is optional or interchangeable)

Page 3 of 8

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

(AREAS OF USE:)

Use Formulation HWS-32 in:

Bathrooms

Homes [Households]

Kitchens

Dental offices

Health Care Facilities

Hospitals

**Medical Offices** 

Nursing homes

Day care centers

Nurseries

Bars

Cafeterias

Convenience stores

Food processing plants

Food storage areas

Institutional kitchens

Restaurants

USDA inspected food

processing facilities

Athletic facilities

Barber shops

Business and office buildings

Colleges

Correctional facilities

Dressing rooms

Exercise facilities

Factories

Hotels

Institutional facilities

Institutions

Locker rooms

Motels

Morgues

Mortuaties

**Prisons** 

Public facilities

Public rest rooms

Schools

Shower and bath areas

Salons [Beauty] [Nail]

Tanning Salons

Camp grounds

Play ground equipment

EPA Stamped Label 4-4-06

Animal laboratories

Dairy farms

Farms

Hog farms

Kennels

Poultry farms Pet animal quarters

Pet shops

Turkey farms

Zoos

Airplanes

**Airports** 

**Boats** 

Buses

Campers

Cars

Emergency vehicles

Mobile homes

Ships

Taxis

Trailers

Trains

Transportation terminals

(TYPES OF SURFACES:)

Use Formulation HWS-32 on

washable nonporous hard.

surfaces of:

Appliances, exteriors of

Bathroom fixtures

Bathtubs [Fiberglass]

Cabinets

Cages

Chairs

Coils and drain pans of air

conditioning and

refrigeration equipment and

heat pumps

Conductive flooring

Counters [countertops]

Countertop laminates

Desks

Doorknobs

Floors

Foot Spas

Garbage cans

Highchairs

Kennel runs

Microwave ovens, exteriors of

Outdoor furniture

Refrigerators, exteriors of

Refrigerated storage and

display equipment

Telephones

Other hard nonporous surfaces

made of:

Glazed ceramic

Glazed enameled surfaces

Glazed porcelain

Laminated Surfaces

Metal

Plastic (such as polystyrene or

polypropylene)

Sealed granite

Sealed limestone

Sealed marble

Sealed slate

Sealed stone

Sealed terra cotta

Sealed terrazzo

Stainless steel

Upholstery, vinyl and plastic

Woodwork, finished

Non-critical medical device

surfaces: Beds [Medical] [Hospital]

Bed frames

Bed rails

Crutches

Non-critical [hospital] [medical]

equipment surfaces

[Medical] Examining tables

[Medical] [Hospital] Lamps [Medical] [Hospital] Scales

Stands

Stethoscopes

Walkers Wheel chairs

(Note to reviewer: Language in [ ] is optional or interchangeable) Formulation HWS-32 EPA Reg. No. 47371-192

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

DILUTION: (1:32) (660 ppm quat)

4 ounces per gallon of water 8 ounces per 2 gallons of water 12 ounces per 3 gallons of water 16 ounces per 4 gallons of water 20 ounces per 5 gallons of water

#### **DIRECTIONS FOR USE**

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

(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.] (cr)

This product is not for use on medical device surfaces.

DISINFECTION **CLEANING** 1 DEODORIZING 1 DIRECTIONS: Remove heavy soil deposits from surface, then thoroughly wet surface with a use-solution of 4 ounces of the concentrate per gallon of water. Apply 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.

This product must not be used to clean or disinfect the following food contact surfaces: utensils, glassware and dishes.

(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.

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-32, 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] [for 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. fort

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 diluted 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 4 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.

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

Preclean equipment if heavily soiled to ensure proper surface contact. Add 4 oz. of Formulation HWS-32 to one gallon of water. 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 should 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).

Formulation HWS-32 EPA Reg. No. 47371-192 EPA Stamped Label 4-4-06 (Note to reviewer: Language in [ ] is optional or interchangeable)

\*KILLS HIV-1 (AIDS VIRUS) AND HBV (HEPATITIS B VIRUS) AND HCV (HEPATITIS C VIRUS) ON 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 or 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 all 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.

## [NAIL] [MANICURE] SALON [BARBER] INSTRUMENTS AND TOOLS DISINFECTION [BACTERICIDE] / [VIRUCIDE] / [FUNGICIDE] DIRECTIONS:

Mix 4 oz. of Formulation HWS-32 per gallon of water (or equivalent dilution) to disinfect hard, nonporous instruments and tools. Use 16 oz./gal. for Adenovirus Type 7. Completely immerse combs, brushes, rollers, razors, scissors, blades, manicure, pedicure 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 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, NONPOROUS 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 4 ounces per gallon of water (or equivalent use dilution) to exposed surfaces with a cloth, mop, sponge or sprayer. 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 4 ounces per gallon of water. 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: 1:32 4 ounces per gallon of water

animals.

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
- 3. Empty all troughs, racks, and other feeding and watering appliances.
- Thoroughly clean all surfaces with soap or detergent, then rinse with water.
- Saturate all surfaces with the recommended disinfecting solution for a period of 10 minutes.
- Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing litter and manure.
- Ventilate buildings, coops, cars, trucks, boats and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.
- 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 the following 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 4 oz. of FORMULATION HWS-32 per gallon of water [or equivalent dilution] for a period of 10 minutes. Wipe or allow to air dry. Immerse all animal handling and restraining equipment as well as forks, shovels, and scrapers used to remove litter and manure. 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 8 - 16 oz. of Formulation HWS-32 per gallon of water. Heavily soiled areas may require repeated cleaning before treatment.

### FOR CANINE PARVOVIRUS ACTIVITY:

Formulation HWS-32 is effective against Canine Parvovirus at 16 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 2:21 (1:10 1/2) use-dilution [12 1/8 oz. per gallon 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-32 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 4 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 4 oz. per gallon of cleaning solution to eliminate undesirable odors.

Laundry: 4 oz. per load added during the final rinse cycle deodorizes all offensive odors.

Air Freshener/Automotive Uses: 16 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: 4 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 4 oz. If odors return before time to empty, simply add 4 oz. to the tank. Kitchen waste: ½ oz. of Formulation HWS-32 to gray water tank as needed to control malodors created by dirty dish water.

Pet Odors: Use 16 - 24 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 8 – 16 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 4 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 4 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 4 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 4 oz. of concentrate per gallon of water. For truck mounted extraction machines: Mix 4-8 oz. of concentrate per gallon of water and meter at 4 gallons per hour. For rotary floor machines: Mix 4 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. Discard in trash or recycle.

(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 locked storage 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.