



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

October 1, 2018

Georgia Anastasiou  
Agent for Halosil  
c/o Lewis & Harrison, LLC  
2461 S. Clark St., Suite 710  
Arlington, VA 22202

Subject: Notification per PRN 98-10 – Removed Medical Symbol and Updated Efficacy Claims on Label  
Product Name: HALOSPRAY  
EPA Registration Number: 84526-1  
Application Date: 08/22/2018  
Decision Number: 544193

Dear Ms. Anastasiou:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact Jake Farley at (703) 347-0123 or via email at [Farley.jake@epa.gov](mailto:Farley.jake@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Zeno Bain".

Zeno Bain, Product Manager 33  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

(Note: **Bold, italicized text is information for the reader and is not part of the label).**

**HaloSpray™**  
Bactericide, Virucide\*\* and Fungicide  
Effective against Mold and Mildew  
Industrial/Animal Facility/Farm Use

**NOTIFICATION**

84526-1

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

10/01/2018

Active Ingredients:

Hydrogen Peroxide.....5.00%  
Silver..... 0.01%  
Other Ingredients..... 94.99%  
Total .....100.00%

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See [back] [side] [right] [left] panel for additional precautionary statements.

Net Contents: (as indicated on container)

EPA Reg. No. 84526-1

EPA Est. No. (as indicated on container)

[See bottom or side for Lot/Data code]

Questions? Comments? [symbol of telephone]

Call: +1-302-454-8102

[Made in USA

Halosil International, Inc, 91 Lukens Drive, New Castle, Delaware 19720

[or an authorized Halosil International distributor (insert name)]

HaloSpray is a registered trademark of Halosil International

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read the entire label before using the product.

Prior to disinfection or sanitization, preclean surface. For use on hard, non porous, nonfood contact surfaces only. Hold (spray bottle) (container) (product) upright 6" to 8" from surface. Spray 2 to 3 seconds until (thoroughly) (wet) (covered with mist)

To Disinfect: Let stand for ten (10) minutes (to air dry) (rinsing not required) (If desired) (wipe with paper towel) (clean dish towel) (or) (clean microfiber towel).

To Sanitize: Let stand for 5 (five) minutes (to air dry) (rinsing not required) (If desired) (wipe with paper towel) (clean dish towel) (or) (clean microfiber towel).

To Deodorize: Spray on surfaces as needed (let air dry). If desired wipe.

It is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 ON PRECLEANED ENVIRONMENTAL SURFACES/ OBJECTS SOILED WITH BLOOD/BODY FLUIDS:** In health care settings or other settings where there is an expected likelihood of soiling inanimate surfaces/ objects with blood or body fluids, and where the surfaces/ objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (AIDS Virus) the following special procedures must be used. **PERSONAL PROTECTION:** When handling items soiled with blood or other body fluids wear protective equipment, including disposable latex or rubber gloves, gowns, masks, and eye coverings. **CLEANING PROCEDURE:** Blood or other body fluids must be thoroughly cleaned from the soiled surfaces and objects before product can be applied. **CONTACT TIME:** To kill HIV-1 (AIDS Virus), a contact time of 10 minutes at room temperature. **DISPOSAL OF INFECTIOUS MATERIALS:** Blood and other body fluids should be autoclaved and disposed of according to local regulations for infectious waste disposal.

**To control mold and mildew:**

- 1) Spray mold and mildew contaminated surfaces with HaloSpray. Be sure to cover the entire area with spray.
- 2) Let air dry for at least 10 minutes.
- 3) Thoroughly wash, scrub and brush off visible residue with a synthetic brush and hot, soapy water
- 4) Rinse with a wet cloth and let dry.
- 5) In approximately 2-3 hours, or when surface has dried, apply a second layer of HaloSpray following the instructions in Step 1. Let dry.

Depending on the extent of contamination, the treatment can be repeated every 2-3 days. Allow the surface to dry completely between each application.

**Fogging**

This product may be applied by fogging to control non-public health microorganisms in use sites such as Animal Housing Facilities and Buildings, Farm Equipment, Poultry Premises, Coops, Trucks and Crates. HaloSpray ready to use product is recommended for use in fogging operations as a supplemental measure after regular cleaning and disinfecting procedures using any type of fogging equipment such as thermofoggers and cold foggers. Conventional corrosion resistant fogging devices are required. Remove all animals from the area and remove all gross soils, liters and droppings. Fog area following device manufacturer's directions. Fog areas using

12-24 ounces per 1000 cu. ft. of room area with HaloSpray solution. Wear a dust mist respirator (such as N-95) when pouring it into the fogging apparatus. Vacate the area of all personnel prior to, during and after fogging until the hydrogen peroxide concentration is below 0.5 ppm.

### **Disinfection and Deodorizing Animal Housing Facilities and Buildings, Farm Equipment, Poultry Premises, Coops, Trucks and Crates**

1. Remove all animals/poultry from the facilities, items/areas to be disinfected.
2. Remove gross soils, liters, droppings, etc with a warm water flush or by sweeping.
3. Empty all troughs, racks, and other feeding and watering equipment.
4. Thoroughly clean all surfaces with detergent or cleaning solution and rinse with water.
5. Make sure area is well-ventilated prior to initiating treatment.
6. To disinfect, saturate surfaces with a disinfecting solution for at least 10 minutes.
7. Prior to reuse, thoroughly scrub treated feed equipment (e.g, feed racks, troughs, fountains, etc.) with a detergent and rinse with water.
8. Keep animals/poultry out of treatment areas and/or do not use treated equipment until solution has been completely absorbed and air dried.

### **Poultry Hatchery Disinfection**

1. Remove any eggs, chicks, poultry and feeds along with all gross soils and other hatching-related debris.
2. Thoroughly clean all surfaces with an appropriate detergent or cleaning solution; then rinse with water.
3. Make sure area is well-ventilated prior to initiating treatment.
4. Apply disinfecting solution via wiping, mopping, spraying, or fogging. Let the use-solution soak in on the treated surface for at least 10 minutes and then allow to air dry.
5. Reintroduce eggs and chicks after all surfaces have dried.

### **CLEANING POULTRY & LIVESTOCK DRINKING WATER LINES**

1. For drinking water lines 500 feet in length or less, using water holding tanks, make a 30% solution of the product by mixing 30 gallons of HaloSpray with 70 gallons of water.
2. For drinking water lines exceeding 500 feet in length, using holding tanks, make a 30% HaloSpray stock solution by mixing 60 gallons of HaloSpray with 140 gallons of water.
3. Pump the 30% HaloSpray stock solution, completely filling the drinking water lines.
4. If the drinking water lines are not supplied by water from holding tanks, you may either prepare a 30% HaloSpray stock solution in a 50 gallon tank by mixing 15 gallons of HaloSpray with 35 gallons of water, pumping this solution into the water line, repeating this process as often as needed, until water line is filled or you may fill the water line, using a proportioner, set to inject undiluted HaloSpray at a rate of 1:3.3 (30%).
5. After the waterline is filled with the 30% HaloSpray solution, activate nipple drinkers to insure solution contact with drinkers.
6. Allow the 30% HaloSpray solution to remain in the water lines for 24 - 48 hours.
7. Flush lines with fresh water until water is visibly clear.

### **Refilling of Spray Bottles**

To refill (spray bottles):

1. (Remove) Remove trigger sprayer (or) cap from empty bottle
2. (Pour) Unscrew cap on refill and pour contents directly into empty bottle.
3. (Use) Replace trigger sprayer and use as you normally would (or) unscrew cap and transfer your trigger to this bottle.

**Directions for Use with enCore.**

enCore Patient Warming System is an operating room device designed to maintain core body temperature during surgical procedures. HaloSpray is applied into the water reservoir to control microbial (slime) build-up in the heated water. (Protect the sterile or distilled water from fouling caused by bacteria and maintain the system's optimal efficiency.)

1. Pour/squeeze entire contents of HaloSpray into the enCore Controller reservoir.
2. Pour sterile or distilled water into the enCore Controller reservoir (approximately 2 liters).
3. Close controller in-let opening cap located on top.
4. Turn on the unit and follow the on-screen instructions.
5. Discard used arm wrap container treated water with regular waste.

(enCore is a trademark of CareFusion Corporation)

## PHYSICAL AND CHEMICAL HAZARDS

This product is incompatible with oxidizing and reducing agents.

## 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 and before eating, drinking, chewing gum using tobacco or using the toilet.

## 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. Call a Poison Control Center or doctor for treatment advice.

[Questions?][Comments], [or] in case of an emergency, call +1-302-454-8102 Have the product container or label with you when calling a Poison Control Center, or doctor, or going for treatment.

**STORAGE AND DISPOSAL:** Do not contaminate water, food, or feed by storage and disposal.

**Pesticide Storage:** Keep out of direct sunlight and away from heat. Do not freeze. Store in original container in areas inaccessible to small children and pets. If product leaking or spills should occur, please dilute with water and dry with absorbent material, or dilute with water as it is flushed into waste water drain.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.”

*(Note to Reviewer: One of the following statements will be used)*

**Container Handling:** Nonrefillable container.

Do not reuse or refill this container except as described in the directions for use.

-or-

Nonrefillable container. Do not reuse or refill this container.

Offer for recycling, if available or (replace cap and) discard in trash.

**Optional Marketing Claims: (note that these claims may or may not appear on the commercial label; in addition, the claims may be used as bullet points or in a paragraph format)**

**Miscellaneous Claims**

Introductory

New (***this claim will only be used for the first six months after commercial introduction***)

(Fresh) (Neutral) (Lemon) (scent)

(Unscented)

Anytime (to-go)

All-purpose

Bleach (Chlorine) (Bleach and Chlorine) free (formula) cleaner ~~(disinfection)~~ ~~(disinfectant)~~ ~~(sanitization)~~ ~~(sanitizer)~~

Alcohol free (formula) cleaner ~~(disinfection)~~ ~~(disinfectant)~~ ~~(sanitization)~~ ~~(sanitizer)~~

Dries quickly

Dual Action (active) (system) (formula)

Easy, Effective

Everyday formula

~~Fast, Easy, Effective~~

Frequent (regular) use formula

Great for frequent use

Leaves (household) surfaces sanitary (disinfected)

(Scent free) (suitable for frequent use)

Modern (Classic)

On-the-go

Ready to Use (formula) (no mixing required)

The (disinfectant) (sanitizer) for the new era

To-Go (anytime)

Versatile Formula

A technology that is enough to use around your family or pets (on the surfaces they touch the most)

Deodorizes sponges

(Easy) ~~(quick)~~ (convenient) to use

(Economy) (institutional) (value) (travel) (business) (size) (pack)

Contains hydrogen peroxide, which breaks down into water and oxygen

No accidental whitening

Use throughout the (your) (home) (house)

Makes your job easier

No (mixing) (or) (dilution) (labor) required

(Daily) sanitizing spray

(Perfect) (ideal) for (business) (vacation) travel

New Size

Bonus Size

Mini

Pocket (size) (pack)

Portable (size) (pack)

Purse (size) (pack)

Travel (size) (pack)

Trial (size) (pack)

Value (size) (pack)

PAA (Peracetic acid) free

Odor free

Odorless

### **General Product Performance/Usage Claims**

This product meets EPA's requirements for a hospital disinfectant.

Effectively eliminates microorganisms specified on the product label from hard, nonporous surfaces.

Effective, alternative broad-spectrum surface disinfectant

Intended for use in all medical, healthcare, semi-critical care, and long term care environments.

(Bactericidal) (Bactericide) (Disinfectant) (Disinfects) [Daily] [Multi-Action] (Multi-Purpose)

(Multi-Room) (Disinfectant) (Sanitizer) (Virucidal\*\*) (Virucide\*\*)

(Kills bacteria\* and viruses\*\*)

HaloSpray. meets standards for a (hospital) (home) (commercial) (institutional) (industrial) disinfectant.

Kills bacteria\* and viruses\*\*

HaloSpray is a ready-to-use mold control agent

HaloSpray is effective against mold

HaloSpray inhibits mold and eliminates musty odors

HaloSpray can be used on bathroom and shower surfaces, walls, floors, tile, fiberglass, grout and plastic.

Controls kitchen odors caused by (insert bacteria) (bacteria)

Controls pet [odor-causing bacteria] (odors)

(This product) Deodorizes by killing (many) (bacteria) that cause odors.

Deodorizing by killing odor-causing (bacteria) at their source

Eliminates (removes)) (odor-causing bacteria) (odors)

Gets rid of odors by killing odor-causing bacteria (that cause them)

Gets to the heart of odors

Helps prevent the build-up of odors by killing odor-causing bacteria (on hard non-porous non-food contact surfaces)

Odor fighter

Perfect for eliminating your toughest odors at their source

(This product) Eliminates odors at their source

(This product) prevents odors at their source caused by (bacteria)

To eliminate odors use (this product) around (insert use sites) (insert use surfaces){insert use sites)

Disinfects hard non-porous (non-food) contact surfaces (such as) (insert use sites)

Disinfects (insert use sites) (and) (insert use surfaces)

For Hospital Use (graphics)

(For use in) hospitals (and homes) (as a) (disinfectant)

For use (on) (in) (insert use sites)(insert use surfaces)

For use in institutional, (animal care) (restaurants) (food-handling establishments) (and industrial) (facilities)

For use on hard, non-porous surfaces located in: (insert use sites)

Great for small area disinfection

Simply spray (this product) on surfaces that you and your family and pets come in contact with everyday (including): (insert use surfaces)

This product (disinfects) (and) (sanitizes) (deodorizes) the following surfaces (insert use surface)

This product (disinfects) (and) (sanitizes) (in) the following areas (insert use sites)

Treats, does not cover up (No need to rinse after use) as a sanitizer and disinfectant

Use on hard to reach areas (like nooks and crannies)

Use this product (in) (under) (around) (on) (insert use site)

Ready to use

Use this product (on) (insert use surfaces)

Do not use on glasses, dishes and utensils or other food contact surfaces.



### **Specific Sanitizing Claims**

An effective sanitizer for non-food contact surfaces (for use in (insert use sites)  
(Sanitizer)

Great for use as a non-food contact surface sanitizer in (insert use sites).

Kills (Destroys) (Eliminates) 99.9% of bacteria

Kills (Destroys) (Eliminates) 99.9% of bacteria on hard, non-porous surfaces

Kills (Destroys) (Eliminates) 99.9% of bacteria on hard, non-porous  
(kitchen)(bathroom)(household) surfaces

Kills (99.9%) (of) (household) bacteria

Leaves (household) surfaces (sanitized) (and) (or) (disinfected)

Sanitizes (kitchen) (household) (bathroom) (restroom) (non-food contact) surfaces

Sanitizes (Kitchen) (household) (bathroom) (hard non-porous) (surfaces)

Sanitizer (Sanitizes)

### **Specific Disinfecting Claims**

An effective disinfectant for use in the kitchen, bathroom, bedroom and other household areas  
(Controls)(Kills) odor-causing (bacteria)

#### **Disinfectant (Disinfection)**

Disinfection Control (Formula)

Disinfects (sanitizes) and deodorizes by killing (bacteria\* and viruses\*\*) and controlling their odors.

Contains Hydrogen Peroxide & Silver

Hydrogen Peroxide & Silver Disinfectant

Hydrogen Peroxide & Silver -based Disinfectant

Hydrogen Peroxide & Silver -based Disinfectant [Disinfecting] Formula

Hydrogen Peroxide & Silver Surface Disinfectant

Hydrogen Peroxide & Silver Multi-Purpose Disinfectant

Hydrogen Peroxide & Silver Multi-Purpose Surface Disinfectant

Kills (99.99% of) (bacteria\*) (the bacteria specified on the product label)

Effective against (bacteria\*) (the bacteria specified on the product label)

Eliminates bacteria\* (viruses\*\*) (and) (odors) on hard non porous surfaces that you (and) (your family) (your children) come into contact with everyday

Fights (and) (kills) odors

(Bacteria\*) (Virus\*\*) (killer) (destroyer)(eliminator)

Kills the viruses associated with the flu virus\*\* \*\*Influenza A strain Hong Kong, Influenza A (H5N1)

Kills the (flu) virus\*\* \*\*Influenza A strain Hong Kong, Influenza A (H5N1)

Kills (Destroys) (Eliminates) (99.99%) (of) (the) (bacteria\*) (the bacteria specified on the product label) on hard non porous surfaces

Kills antibiotic resistant bacteria<sup>† †</sup>Methicillin Resistant Staphylococcus aureus (MRSA)

Kills (99.99% of) (bacteria\*) (eliminates odors) (and) (deodorizes)

Kills (99.99% of) (bacteria\*) helps (leaves) your house (home) smell (smelling) clean (and) (fresh)

Kills (99.99% of) bacteria\* (whenever) you need it

Kills (99.99% of) (household) (kitchen) bacteria\* on hard non porous, nonfood contact surfaces

Kills (99.99% of) (kitchen)(household)(bathroom) bacteria\*

Kills (99.99% of) most Household bacteria\*

On hard, non-porous, non-food contact surfaces this product kills (99.99% of) the bacteria specified on the product label.

Surface Disinfectant

(This product) (controls) (kills) the (bacteria) that cause unpleasant odors (at the source),

(This product) (also) eliminates odor causing (bacteria) (at their source) (to leave your home smelling fresh and clean).

**Specific Disinfecting Claim- continued**

(This product) (helps) reduce cross contamination of (antibiotic resistant bacteria<sup>†</sup>) between treated hard, non-porous surfaces <sup>†</sup>Methicillin Resistant Staphylococcus aureus (MRSA)

(This product) (helps) (aids) in the reduction of cross contamination of (antibiotic resistant bacteria<sup>†</sup>) between treated hard, non-porous surfaces <sup>†</sup>Methicillin Resistant Staphylococcus aureus (MRSA)

(This product) kills the (bacteria) that cause (bad) odors

(This product) kills (99.99% of) bacteria\* on hard non porous, nonfood contact surfaces in your home and in public places.

You can also use (this product) in places that are difficult to (disinfect) (sanitize) (reach) such as nooks and crannies

Your family comes in contact with bacteria everyday (both in the home and in public (places) (this product) kills bacteria on commonly touched on hard non porous, nonfood contact surfaces (in your home) (in public places) (in hotel rooms)

**H1N1 Claims:**

-Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus.

HaloSpray [this product] is a broad-spectrum hard surface disinfectant that has been shown to be effective against influenza A virus (H5N1) (influenza) (flu virus) (Strain VNH5N1-PR8/CDC-RG CDC #2006719965) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).

-HaloSpray [This product] has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

HaloSpray [This product] has demonstrated effectiveness against influenza A virus (H5N1) (influenza) (flu virus) (Strain VNH5N1-PR8/CDC-RG CDC #2006719965) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).

-Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).

-Kills Pandemic 2009 H1N1 influenza A virus.

Studies conducted with HaloSpray have demonstrated that the product kills the following bacteria\* and viruses\*\*:

**\*Bacteria:**

Proteus mirabilis (ATCC 9240)  
Pseudomonas aeruginosa (Pseudomonas) (ATCC 15442)  
Staphylococcus aureus (Staphylococcus) (Staph) (ATCC 6538)  
Salmonella enterica (Salmonella) (ATCC 10708)  
†Methicillin Resistant Staphylococcus aureus (Staph) (MRSA) (ATCC 33592)  
Enterobacter aerogenes (ATCC 13048)  
Escherichia coli (E coli) (ATCC 11229)  
[Sulfate Reducing Bacteria]

**\*\*Viruses**

Feline calicivirus (as surrogate for Norovirus) (ATCC VR-782)  
Human Immunodeficiency Virus type 1 (HIV) (Strain HTLV-III B)  
Influenza A strain Hong Kong (ATCC VR-544)  
Influenza A (H5N1) ( (Strain VNH5N1-PR8/CDC-RG CDC #2006719965)  
Minute virus of Mice (MVM) (ATCC VR 1346)  
Norovirus (ATCC VR-782)  
Rhinovirus type 37 (Rhinovirus)) (ATCC BR-1147, Strain 151-1)

**Fungi**

Aspergillus niger (ATCC 16404)  
Trichophyton mentagrophytes (ATCC 9533)

**Effective disinfectant against the following (10 minute contact time):**

**\*Bacteria:**

Proteus mirabilis (ATCC 9240)  
Pseudomonas aeruginosa (Pseudomonas) (ATCC 15442)  
Salmonella enterica (Salmonella) (ATCC 10708)  
Staphylococcus aureus (Staphylococcus) (Staph) (ATCC 6538)  
†Methicillin Resistant Staphylococcus aureus (Staph) (MRSA) (ATCC 33592)  
Escherichia coli (E coli) (ATCC 11229)

**\*\*Viruses:**

Feline calicivirus (as surrogate for Norovirus) (ATCC VR-782)  
Human Immunodeficiency Virus type 1 (HIV) (Strain HTLV-III B)  
Influenza A strain Hong Kong (ATCC VR-544)  
Influenza A (H5N1) (Strain VNH5N1-PR8/CDC-RG CDC #2006719965)  
Minute virus of Mice (MVM) (ATCC VR 1346)  
Norovirus (ATCC VR-782)  
Rhinovirus type 37 (Rhinovirus)) (ATCC BR-1147, Strain 151-1)

**Fungi:**

Trichophyton mentagrophytes (ATCC 9533)

**Effective sanitizer against the following (5 minute contact time):**

**\*Bacteria:**

Proteus mirabilis (ATCC 9240)  
Staphylococcus aureus (Staphylococcus) (Staph) (ATCC 6538)  
†Methicillin Resistant Staphylococcus aureus (Staph) (MRSA) (ATCC 33592)  
Enterobacter aerogenes (ATCC 13048)

**Effective against the following (10 minute contact time):**

**Fungi:**

Aspergillus niger (ATCC 16404)

**Use Sites:**

[FOR USE IN:]

Airplane	Den	Laundry Room	Public telephone (booths)
Airports	Dental Office	Litter boxes	Recreational centers or facilities
Amusement parks	Dining halls	Living Room	Rest stops
Attic (damp)	Dining Room	Libraries	Restaurant(s) §
Athletic [recreational] facilities	Dorm(s) [lockers]	Locker rooms	Retail/wholesale establishments
Automobile	Dormitories	Lodging establishments	Retail businesses
Barber shops	Elevators	Lounges	[Retail] [Wholesale] florists
Basement	Emergency vehicles	Malls	Schools
Bathroom(s)	Family Room		School Bus
Beauty [salons] [shops]	Factory/Factories	Manufacturing Plant (s)	Shelters
Bedroom	Fast food restaurants §	Markets	Shippers
Boat	[Food processing] § plants	(Medical) Clinic	Shopping centers
Bowling Alley	Food storage areas §	Mass merchandisers discount retailers and/or general merchandise stores	Shops
Blood Bank	Food service establishments § [Restaurants §] [Commercial Kitchens §]	Military Installation	Shower rooms
Buildings	Funeral homes	Mobile Home/RV(s)	Sick Room
Business	Garage [storage areas]	Mortuaries	Spas [massage/facial] [hair/nail]
Buses	[Garbage] [Waste] storage areas	Motel	Sports arenas
Butcher shops §	Gas stations	Mud Room	Sports stadiums
Cafeteria	Greenhouses	Nursery/Nurseries	Sunroom
Camper(s) [home]	Grocery stores §	Nursing Home	Subways
Campground facility	Gym(s) [Gymnasium(s)]	Offices	Supermarkets (grocery store) §
Car	Health Club(s)	Office/Building	Tattoo parlors
Child Care Centers	Home(s) /House	Patient Rooms	Toll Booth
Churches	(Home) Workshop	Pet animal quarters	Tool Shed
Clinics	Home centers	Pet areas	Train Interior
Closets	Hospital(s)	Pet shops and other animal care facilities	Transportation terminals
College (Institutional)	Hotel	Pharmacy/Pharmacies	Trolleys
Club	Industrial (facilities)	Physician Office	Universities
Commercial Building	Institutional/ Institutions	Playroom(s)/ Play area	Vacation Home
Convention centers	(Institutional) Kitchen(s) §	Playground (facility)	Vehicles
Correctional facilities	(Institutional) Restroom(s)	[Police and/or fire] vehicles	Veterinary (office) (clinics) (facilities)
Cruise ships	Infirmary	Produce areas §	Waiting Rooms
Dairy farms	Kitchen §	Public eating places §	Warehouse
[Damp] storage areas	Kennels	Public facility	Wellness centers
Day Care Center	Laboratory	Public places	Zoos
Doctors Office	Laundromat	(Public) restrooms	

§non-food contact surfaces

**Optional Graphics depicting Professional Use Sites**



**SURFACES (- Graphic — depicting surface)**

[FOR USE ON] Hard Non-porous, non-food contact surfaces:

Appliance exteriors[s] [surfaces]	changing tables	drain boards	garage surfaces	light fixtures, switches, panels
appliance or cabinet knobs	chemotherapy hoods	dressing carts	garbage or trash [cans] [disposals] [pails]	linen carts
baked enamel	[children's] furniture <sup>‡</sup>	elevator buttons	glass	linoleum
bassinets	chrome	empty garbage bins	glazed ceramic tile	litter boxes
baby furniture (non-wood)	clean-up carts	enamel	glazed porcelain	lockers
Bathroom [surfaces] [fixtures]	closets	examination tables	[grocery [store] or supermarket] carts, cart handles and child safety seats	[medicine] cabinets
[bathroom] [kitchen] faucet[s] [handles]	[clothes] [diaper] hampers <sup>‡</sup>	exercise machines	germ prone [hard non-porous] surfaces	metal
[bath]tubs	computers	exercise mats	gym[nastic] equipment	metal blinds
bed springs	[computer] keyboards	exhaust fans	[hand] railings or rails <sup>‡</sup>	metal portable toilets
[behind and under] counters <sup>‡</sup>	[computer] monitors	exterior or external toilet surfaces	[hard non porous] car interior surfaces	metal work benches
[behind and under] sinks <sup>‡</sup>	cooler exteriors	exterior or external urinal surfaces	[hard non-porous] bedroom, office or bedside furniture	mirror
bidet faucets (non-wood)	copper	exterior surface(s) of [microwave (oven)] [oven][refrigerator]	Headsets	office machinery
booster chairs	(non-food contact) counter or countertops	faucets	high chairs [non-food contact] (non-wood) surfaces	outdoor stretchers (non-wood)
bottoms of pots and pans	cultured marble	fax machine[s] [handles]	[hard non-porous] bed frame or crib [surfaces] [fixtures]	oven doors
BP monitors	cupboards	fixtures	[hard non -porous] boat interior surfaces	packing benches
brass	Cribs (non-wood)	[filing] [medicine] cabinets	[hard non porous] ship interior surfaces	parquet tin (diaper) changing table
burner trays	crystal [non food contact] surfaces	finished or painted walls	[hard non porous] trailer interior surfaces	patient chairs
cabinets	desk[s] [lamine] [tops] (surfaces)	finished windowsills	[instrument] stands	phones
cages	diaper pails	floors (non-wax) (resilient) (ceramic)	[interior [hard non porous] surfaces of [vehicles] [rental cars]	piano keys
cat litter boxes	dictating equipment	floors and walls of coolers	[kids] play [structures] [equipment] [furniture] [tables]	pet areas and surfaces
carts	[dining] [fast food] [kitchen] [picnic] [play] [restaurant] [tray] tables	flower buckets	[kitchen] appliance exteriors	plastic (baby) (children) toys
cell[ular], wireless, mobile or digital phones	dining room surfaces and/or tables and/or fast food restaurant tables	furniture <sup>‡</sup> (non-wood)	lamps	plastic laundry basket (hamper)
chairs (non-wood)	door[s] handle[s] [knob] frame[s]	freezer exteriors	large inflatable nonporous plastic (rubber)	plastic surfaces associated with walls fixtures, toilets, urinals, sinks shower and locker rooms

<sup>‡</sup> non-porous surfaces of

***continuation of surfaces***

plastic toilet (seat) (areas)	shower (curtain) (plastic) (liner) (glass topped)	strollers <sup>‡</sup>	trash cans and/or compactors	wastebaskets
playpen	shower (stall) (area)	synthetic marble	tubs	wheelchairs
portable toilets	signs	(non-food contact) table [table tops]	under sinks disk racks	whirlpool interiors
[public or pay] telephones or phone booths	sill[s] ledge[s]	telephones	vanity tops or vanities	window [blinds] [shades]
range hoods	sink[s] (basin[s])	telecommunication equipment [surfaces]	vending machine surfaces	windows
recycling bins	sports [exercise] [athletic] equipment	toilet and/or urinal exterior surfaces	vinyl (tile)	windowsills
remote control(s)	stainless steel	toilet [handle] [rim] [seat] [top]	walkers	windshields
restroom fixtures	stall doors	Tools (household) (patio)	walls	work benches
salad bar sneeze guards	staplers	towel dispensers	washable kitchen surfaces	wrestling mats
sealed granite	stereo consoles	toy boxes	washable walls [paper]	
seats	storage bins <sup>‡</sup>	toys	washers/dryers or washing	
shelves/drawers	stovetops or stoves	[training] toilets	machine exterior surfaces	

<sup>‡</sup> non-porous surfaces of

**Medical Use Sites:**

Ambulances or [Emergency Medical] Transport Vehicles	[Hospital] Kitchens	Patient Areas
Ambulatory Surgical Centers (ASC)	Hospices	Patient Restrooms
Anesthesia Rooms or Areas	Intensive Care Units ICU[s] [areas]	[Pediatric] Examination Rooms or Areas
[Assisted Living or Full Care] Nursing Homes	Isolation Areas	Pediatric Intensive Care Units [PICU]
Carts	Laundry Rooms	Pharmacies
CAT Laboratories	Laboratories	Physical Therapy Rooms or Areas
Central Service Areas	Long Term Care	Psychiatric Facilities
Central Supply Rooms or Areas	Facilities	Public [Care] Areas
Critical Care Units or CCUs	Medical Facilities	Radiology or X Ray Rooms or Areas
Dialysis Clinics [Facilities]	Newborn or Neonatal [Nurseries] [Intensive Care] Units [NICU]	Recovery Rooms
Donation Centers [blood] [plasma] [semen] [milk] [apheresis]	Nursing or Nursing Stations	Rehabilitation Centers
Emergency Rooms or ERs	Operating Rooms	Respiratory Therapy Rooms or Areas
Eye Surgical Centers	Ophthalmic Offices	Restrooms
Health Care Settings or Facilities	Orthopedics	Surgery Rooms or Operating Rooms or ORs
Home Health Care [Settings]	Out Patient [Surgical Centers (OPSC)] [Clinics] [Facilities]	Waiting Rooms or Areas

### Medical Use Site Surfaces:

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.

Air vents	desktops	large surfaces	reception counters or desks or areas
Anesthesia machines	diagnostic equipment	loupes	respirators
Apheresis machines	dialysis machines	mammography equipment	respiratory therapy equipment
Autoclaves	docking stations	[Mayo] [instrument] stands	scales
Bathroom doorknob	environmental surfaces	medication carts	sequential compression devices
Bedpans	exterior surfaces of air vents	mobile devices	shower fixtures
Bedrails	external surfaces of [medical equipment]	mobile electronic equipment	side rails
[bedside] tables	external surfaces of ultrasound transducers [and/or probes]	mobile workstations	sills [ledges]
blood pressure cuffs <sup>‡</sup>	exterior of pipes	[non porous] mouse pads <sup>‡</sup>	slit lamps
blood pressure (BP) monitors	footboards	nurse call [devices] [buttons][and cords]	small surfaces
cabinet handles	glucometers	operating room tables and lights	spine backboards
call boxes	gurneys	operatory light switches	stethoscopes
CAT or Computerized Axial Tomography equipment	handheld [electronic] devices	oxygen hoods	stools
Carts	[hard nonporous] edges of privacy curtains	overbed tables	stretchers
Cellular phones	hard nonporous [environmental] hospital or medical surfaces	paddles	support bars
Charging stations	[hard nonporous] high touch surfaces	pagers	tablet PCs
Closet handles	headboards	[patient] chairs <sup>‡</sup>	toilet handholds
Coated mattresses	[hospital or patient] bed[s] [springs] [railings] [frames] [linings]	patient monitoring equipment	traction devices
Coated pillows	infant incubators and care cribs	patient support and delivery equipment	walls [around toilet] [in patient rooms]
Computer mouse or mice	infant warmers	phlebotomy trays	wash basins
Computer peripherals	[inner] [inside of] drawers	physical therapy (PT) equipment surfaces	wheelchairs
Computer screens [monitor] [display]	isolettes	phone cradle	x ray equipment
Computer table [stand]	IV [stands][pumps][poles]	power cords	
Cords	keyboards	pulse oximeters	
Counters [crash] [emergency] carts	laptops [computer]	PVC tubing	

<sup>‡</sup> non-porous surfaces of



**Dental Use Sites:**

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.

Dental operatories  
Dentist office  
Examination room[s]

**Dental Use Site Surfaces:**

Amalgamators and/or Dental curing lights	Endodontic equipment such as apex locators
Dental surfaces	Hard nonporous [environmental] dental countertops
Dental operatory surfaces	Light lens covers
Dentists or dental chairs	Pulp testers and motors
Dental instrument trays	Reception counters, desks, or areas

**Veterinary Use Sites:**

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.

[Animal] [pet] housing [kennels] [facilities]	Pet [areas] [quarters]
Animal holding areas	Pet shops or stores
Animal life sciences laboratories	Small animal facilities
[animal or pet] grooming facilities	Tack shops
Animal transportation vehicles	Veterinary [offices] [waiting rooms]
Breeding establishments	Veterinary [examination rooms]
Dairy farms	Veterinary [x ray rooms]
Equine farms	Veterinary [operating rooms]
Farms	Zoos
Livestock and/or swine and/or poultry facilities	

**Veterinary Use Site Surfaces:**

Animal equipment	Hard nonporous [environmental] veterinary surfaces
Automatic feeders <sup>§</sup>	Pens
Cages	Reception counters or desks or areas
Exterior surfaces of fountains	Stalls
External surfaces of [veterinary] equipment	Troughs <sup>§</sup>
Exterior surfaces of watering appliances	Veterinary care surfaces
Feed racks <sup>§</sup>	

<sup>§</sup>non-food contact surfaces