

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



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

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

September 29, 2004

Bruce Riffel  
Regulatory Manager  
Quest Chemical Corporation  
12255 FM 529  
Northwoods Industrial Park West  
Houston, TX 77041

Subject: Concept Hospital Disinfectant Deodorant  
EPA Registration No. 44446-67  
Application Dates: September 8, 2004  
EPA Received Dates: September 15, 2004

Dear Mr. Riffel:

This acknowledges receipt of your notification, submitted under the provision of PR Notice 98-10, FIFRA 3(c)9.

**Proposed Notification**

- Revised labeling

**General Comments**

Based on a review of the material submitted, the following comments apply:

The notification application is unacceptable for the following reasons:

1. The notification application will be acceptable provided you comply with PR Notice 98-10, section VI, i.e. "Certification Statement."

Should you have any questions or comments concerning this letter, please contact me at 703-308-6422.

Sincerely,

Adam Hayward  
Product Manager 34  
Regulatory Management Branch II  
Antimicrobials Division (7510 C)

CONCURRENCES

SYMBOL	7510C					
SURNAME	[Signature]					
DATE	9/29/04					



September 8, 2004

Mr. Adam Heyward, PM 34  
Antimicrobial Division (7510C)  
US Environmental Protection Agency  
Ariel Rios Building  
1200 Pennsylvania Ave., NW  
Washington, DC 20460

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**NOTIFICATION**  
Date Reviewed: 9-10-04  
Reviewed By: [Signature]

CERTIFIED MAIL: 7002 3150 0001 8478 7980

RE: Concept Hospital Disinfectant Deodorant, EPA Reg. No. 44446-67  
Notification: Adding additional directions for "Total Release" via PR 98-10 M3

Dear Mr. Heyward,

Attached please find our application for the above noted notification. The purpose of this notification is to add a substantially similar application method for this product. The use of Concept Hospital Disinfectant as a total release will not change the three items listed below.

- This application method results in exposure no greater than from the currently registered method.
- The new application method results in no change in dosage, concentration, timing or frequency of application of product.
- The product is not registered for public health related uses or termiticides.

Because these three criterias are met, we are adding these additional instructions to the "Directions For Use" section of the label. I have enclosed five copies of the proposed label change for your records.

If you have any questions concerning this notification, please do not hesitate to contact me. I look forward to your letter accepting this label change.

Sincerely,

**QUEST CHEMICAL CORPORATION**

Bruce Riffel  
Regulatory Manager

BR/mac  
Enclosures



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number  
251174

Application for Pesticide - Section I

1. Company/Product Number 44446-67	2. EPA Product Manager Adam Heyward	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Concept Hospital Disinfectant Deodorant	PM# 34	
5. Name and Address of Applicant (Include ZIP Code) Quest Chemical Corporation 12255 FM 529 Houston, Texas 77041 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	<b>NOTIFICATION</b> Date Reviewed: <u>9-17-04</u> Reviewed By: <u>SG</u>
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

Explanation: Use additional page(s) if necessary. (For section I and Section II.)  
We want to add additional directions for "Total Release" for air freshener. It will not change exposure, dosage, concentration timing or frequency of application. This use is not registered for public health related uses or termiticides.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 8, 16, 20 & 24 oz Aerosol Can		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input checked="" type="checkbox"/> Other <u>Silkscreen</u>		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Bruce Riffel	Title Regulatory Manager	Telephone No. (Include Area Code) 713 896-8188 x 135	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title Regulatory Manager	
4. Typed Name Bruce Riffel		5. Date 9/8/04	



# CONCEPT HOSPITAL DISINFECTANT DEODORANT

Virucidal\* • Tuberculocidal  
Fungicidal • Bactericidal  
Pseudomonicidal • Staphylocidal  
Sanitizes Fabric and Leather  
Controls Mold/Mildew Fungi  
(Specific species/agents listed on back panel.)

**HOSPITAL-USE AND BROAD-SPECTRUM  
DISINFECTANT AND ANTIMICROBIAL AGENT**

**KILLS HIV-1 (AIDS VIRUS) AND HERPES  
SIMPLEX TYPES 1 & 2 VIRUSES ON  
PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS  
PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS.**

**FOR USE ON PRECLEANED, HARD, NONPOROUS, NONFOOD-  
CONTACT SURFACES IN/ON INDUSTRIAL, INSTITUTIONAL,  
COMMERCIAL, MEDICAL, AND RESIDENTIAL FACILITIES,  
EQUIPMENT, AND VEHICLES.**

Authorized by USDA for use in Federally inspected  
meal and poultry plants.

<b>ACTIVE INGREDIENTS:</b>	
2-Phenylphenol .....	0.199%
4-tert-Amylphenol .....	0.04%
Ethanol .....	53.000%
<b>INERT INGREDIENTS</b> .....	<b>46.759%</b>
<b>TOTAL</b> .....	<b>100.000%</b>

EPA Reg. No. 44446-67 EPA Est. No. 44446-TX-1

**NET WT. 16.5 OZ. (468 g)**

**KEEP OUT OF REACH OF CHILDREN**

### WARNING:

SEE ADDITIONAL PRECAUTIONARY AND FIRST AID  
STATEMENTS ON BACK PANEL.

MANUFACTURED BY:  
QUEST CHEMICAL CORPORATION  
HOUSTON, TX 77041

### FE. S. CLAIMS, AND USES

An excellent disinfectant, antimicrobial agent and two-way deodorizer for use on pre-cleaned, hard, nonporous surfaces, including toilets, urinals, bathtubs, shower stalls, seats, benches, lockers, partitions, counters, fixtures, knobs, handles, railings, telephones, furniture, equipment and surfaces which could harbor hazardous microorganisms.

**VIROCIDAL\*** - Kills Human Immunodeficiency virus Type 1 (HIV-1); a retrovirus that causes "AIDS" (Acquired Immune Deficiency Syndrome); Herpes simplex Types 1 and 2, Influenza A2/Hong Kong, Adenovirus Type 5, Vaccinia, Infectious canine hepatitis, Canine distemper, and Feline pneumonitis.

**BACTERICIDAL** - Kills these species: Escherichia coli; Pseudomonas aeruginosa; Salmonella choleraesuis; Salmonella schottmuelleri (paratyphoid B); Shigella dysenteriae; Staphylococcus aureus; and Streptococcus pyogenes.

**TUBERCULOCIDAL** - Kills Mycobacterium tuberculosis (Tubercle bacilli).

**FUNGICIDAL** - Kills Trichophyton mentagrophytes ("athlete's foot" fungi; formerly known as T. interdigitale) in appropriate areas such as on shower room floors, locker room benches, and bath mats.

**CONTROLS MOLD/MILDEW** - Completely inhibits the growth of Aspergillus niger and Penicillium variable fungi on cloth.

**SANITIZES** - Controls Staphylococcus aureus and Klebsiella pneumoniae on porous fabric and leather surfaces, such as on shoes, athletic mats, athletic shoes and other athletic equipment.

**DEODORIZES TWO WAYS** - Pleasant fragrance quickly suppresses existing unpleasant odors from many sources. Controls microorganisms that could continue to create foul putrefactive odors.

**FOR USE IN:** Industrial, Institutional, Commercial, Medical, and Residential facilities, equipment, and vehicles, including hospitals; ambulances; nursing homes; medical and dental offices and clinics; veterinary offices and animal areas; schools; laboratories; hotels and motels; restaurants and cafeterias; food storage, processing, packaging, handling, and serving establishments and equipment; offices; stores; factories and manufacturing plants; and apartment buildings and homes.

**FOR USE ON:** Most glass, porcelain, ceramic, enameled, painted, plastic (such as ABS, acrylic, latex rubber, phenolic resin, polyamide, polycarbonate, polyester, polyethylene, polyolefin, polypropylene, polystyrene, polytetrafluoroethylene, polyurethane, and vinyl), rubber, metal, sealed leather, wood, grout, and concrete, and similar nonporous surfaces.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes eye irritation; do not get in eyes, on skin, or on clothing. May be harmful if swallowed. Avoid breathing spray mist or vapors.

### NOTIFICATION

Date Reviewed: 2-17-04  
Reviewed By: SG-VLL

F ID

#### 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 further treatment advice.

#### If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

#### 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.

#### If swallowed:

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

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

**PHYSICAL/CHEMICAL HAZARDS:** Flammable. Contents under pressure. Keep away from heat, sparks, pilot lights, and flames. Do not puncture or incinerate container. Exposure to temperatures above 130°F (54°C) may cause bursting.

#### DIRECTIONS FOR USE

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

This product is not to be used on any surface or instrument that (1) is introduced directly into the human body, either 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.

**GENERAL:** Shake container well before each use and hold it upright while spraying. For use on precleaned, hard nonporous surfaces; not for use on humans or animals. Do not contaminate foods/drinks/feeds. Not recommended for use on waxed/polished surfaces, water-based "latex" paint, shellac, cellulose (such as rayon) or other alcohol-sensitive materials.

**TO KILL HIV-1** (Human Immunodeficiency virus Type 1; AIDS virus) **ON PRECLEANED SURFACES/OBJECTS** in health care or other settings with inanimate environmental surfaces/objects associated with the potential for transmission of HIV-1 and likely to be soiled with blood/body fluids, follow these additional **SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATING AGAINST HIV-1 ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS:** PERSONAL PROTECTION - Barrier protection items such as

disposable latex gloves, gowns, masks, and eye coverings should be worn when handling items soiled with blood/body fluids. **CLEANING PROCEDURE** - Blood/body fluids must be thoroughly cleaned from surfaces/objects before application of this product as a disinfectant. **CONTACT TIME** - Same as for disinfecting. **DISPOSAL OF INFECTIOUS MATERIALS** - Blood/body fluids and other materials removed from or used to clean surfaces/objects should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

**FOR DISINFECTING, MILDEW CONTROL, SANITIZING, AND DEODORIZING OF CLEAN, NON-FOOD CONTACT SURFACES:** Hold container upright about 6 to 8" (1/5 m) from surface and spray until target area is thoroughly wetted. Complete disinfection and tuberculocidal activity require a contact time of 10 minutes at approximately 68°F (20°C). Sanitization requires a 5 minute contact time at about 72°F (22°C). For mildew control, repeat application when necessary.

**TO DEODORIZE AND FRESHEN ROOM AIR:** Spray upward toward center and corners of room, keeping spray opening at least 3 ft. (1m) from surfaces.

#### STORAGE AND DISPOSAL

**GENERAL:** Do not contaminate other materials (including foods/drinks/feeds/water) during transport, use, storage, and disposal. If damaged or leaking, soak up and wrap any waste, then dispose of as below.

**STORAGE:** Keep in a cool, dry, locked area inaccessible to children and away from sources of heat and ignition (including flames, sparks, hot surfaces, and sunlight).

**DISPOSAL:** Do not puncture or incinerate! If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions.

**INGREDIENTS (CAS#):** Ethyl Alcohol (64-17-5), Water (7732-18-5), Propane/n-Butane (68476-86-8).

**WARNING:** This product contains a chemical(s) known to the State of California to cause cancer.

**HMIS Ratings:** Health - 1, Flammability - 3, Reactivity - 1, Personal Protection - A.

**NOTE: Section below includes optional/additional claims that can be made for product.**

#### FEATURES, CLAIMS, AND USES

This unique product was issued  
U.S. Patent No. 3,832,459.

#### TWO-WAY DEODORIZING ACTION PLEASANTLY SCENTED ATTACKS MALODORS AT THEIR SOURCE

- No mixing ... comes ready-to-use ... instantly!
- Won't spill, evaporate, or become contaminated.
- Sprays on ... hands never touch hazardous contaminated surfaces.
- Leaves surfaces thoroughly disinfected and deodorized.
- Kills the viruses that cause AIDS, genital Herpes, and Hong Kong Flu.
- Documented germicidal activity ... kills Staph, Strep, TB, and other listed bacteria and fungi.
- Kills fungi that cause "Athlete's Foot".

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- Controls fungi that cause mold/mildew.
- Has dual-mode, long-lasting deodorizing action.
- Does not affect sense of smell (will not cause anosmia).
- Destroys microorganism-caused putrefactive odors.
- Attacks chemical malodors at the molecular level.

**READY-TO-USE MICRO-MIST HIGH-SOLVENT SPRAY** wets surfaces thoroughly and penetrates into cracks and crevices that many low-solvent liquids cannot reach. Dries quickly; leaves no stains.

This convenient, pressurized, pleasant, hospital-use and broad-spectrum disinfectant and antimicrobial agent disinfects and deodorizes surfaces after a 10 minute exposure time. Eliminates dilution errors, product contamination, and other problems common to non-pressurized products and those that require dilution and mixing.

**VIRUCIDAL\*** – kills these agents: Adenovirus Type 5 (an adenovirus that causes a type of "tonsillitis" and may affect the adenoids); Canine distemper (a myxovirus that causes "distemper" in dogs); Feline pneumonitis (a Chlamydia psittaci that affects the lungs of cats); Herpes simplex Type 1 (a herpes virus that causes "cold sores" and may affect the brain); Herpes simplex Type 2 (a herpes virus that causes genital lesions and may affect the brain); Human immunodeficiency virus Type 1 (HIV-1; a retrovirus that causes "AIDS" [Acquired Immune Deficiency Syndrome], which destroys the body's ability to fight disease); Infectious canine hepatitis (an adenovirus that causes a type of hepatitis in dogs); Influenza A2/Hong Kong (a myxovirus typical of many that cause "flu"); and Vaccinia (a poxvirus that causes "cowpox").

**TUBERCULOCIDAL** – kills Mycobacterium tuberculosis (var. bovis [BCG]; Tubercle bacilli).

**SANITIZES NONFOOD-CONTACT SURFACES** – controls Staphylococcus aureus and Klebsiella pneumoniae on fabric and leather. Effective in the presence of 5% organic soil. For use on shoes, athletic mats, athletic shoes, other athletic equipment, and on similar items with porous fabric and leather surfaces. Sanitizes against odor-causing organisms on most porous surfaces.

**TWO-WAY SURFACE/SPACE DEODORIZING ACTION:** Its fresh, pleasant scent acts quickly and remains effective for long periods on unpleasant odors from many sources. Quickly counteracts "CHEMICAL" MALODORS such as garlic, onion, tobacco smoke, stale odors, musty smells, fish, gas, and urine; in kitchens, bathrooms, basements, and many other occasionally malodorous, unpleasant areas and situations. Controls many odor-causing microorganisms that generate the "BIOLOGICAL" MALODORS associated with surgical dressings, ostomy pouches (post-colostomy/post-ileostomy dressings and bags), malignant diseases, excised organs and tissue, fecal matter, burns, perspiration, mold/mildew, garbage, and other decaying, putrefying organic matter.

**AIR DEODORIZING ACTION:** It is also a nonspecific odor suppressant for space odor conditioning. Molecular deodorant attacks malodors at the source. Suppresses and eliminates odors by chemically neutralizing odor producing materials. Does not cause anosmia.

#### IN MEDICAL FACILITIES

This full-strength product has been used successfully for many years in hospitals and other medical facilities to help control the hazard of cross-contamination on hard surfaces in operating and delivery rooms, obstetric wards, and other critical patient care areas.

#### IN HOMES AND APARTMENTS

Now you can use this same product for household areas, such as in homes, apartments, cars, vans, trucks, boats, campers, garages, and storage buildings; on and around toilet

seats, sinks, bathtubs, stalls, telephones, diaper pails, trash compactors, garbage cans, and pet areas; wherever contaminated areas and odor-causing bacteria are a problem.

**DESTROYS ODORS... LEAVES A PLEASANT, NATURAL, FRESH SCENT:** Acts quickly to eliminate (not just "cover up") cooking, bathroom, sickroom, and pet odors. Refreshes smoke-fouled rooms and fabrics. Unlike ordinary "air fresheners", it stops many odors at their source by killing odor-causing bacteria and fungi in empty trash compactors, garbage and diaper pails, and hampers; in toilet areas and damp basements; under sinks; and in similar malodorous areas.

**PREVENTS MOLD/MILDEW:** Fungicidal ingredients will effectively control mold/mildew and odors when applied to precleaned, hard, nonporous surfaces. Use in basements, attics, closets, laundry rooms, and storage areas. Also spray on color-fast, non-nylon items such as books, shower curtains, and shoes.

#### IN DENTAL FACILITIES

This effective hospital-use product disinfects and deodorizes precleaned, nonporous, inanimate surfaces on furniture, equipment, and other items in dental facilities, including public and private area surfaces which could harbor hazardous microorganisms. Use this product to disinfect and deodorize these and many other locations in dental areas. Reduces the hazard of cross-contamination between surfaces.

**FOR USE AS A TOTAL RELEASE AIR DEODORIZER  
ONE UNIT TREATS UP TO 6,000 CUBIC FEET  
PHYSICAL/CHEMICAL HAZARDS:**



**Highly Flammable Ingredient  
Ingrediente Altamente Inflamable**

Contents under pressure. Keep away from heat, sparks, pilot lights, and flames. Do not puncture or incinerate container. Exposure to temperatures above 130°F (54°C may cause bursting. Extremely flammable. This product contains a highly flammable ingredient. It may cause a fire or explosion if not used properly. Follow the "Directions For Use" on this label very carefully.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. DO NOT use more than one fogger per room. DO NOT use in small, enclosed spaces such as closets, cabinets, or under counters or tables. DO NOT use in a room 5 feet by 5 feet or smaller; instead, allow fog to enter from other rooms. Turn off all ignition sources such as pilot lights (shut off gas valves), other open flames, or running electrical appliances that cycle off and on (i.e., refrigerators, thermostats, etc.) Call your gas utility or management company if you need assistance with your pilot lights. Do not use this unit in an area less than 100 cubic feet.

**SHAKE WELL BEFORE USE. KEEP CONTAINER UPRIGHT.**

Cover exposed food, dishes and food-handling equipment. Open cabinets and doors to area to be treated. Shut off fans and air conditioners. Put out all flames and pilot lights. Close doors and windows. Point valve opening away from face and eyes when releasing. Use one unit for each 6,000 cubic feet of unobstructed area. Use additional units for remote rooms or where free flow of mist is not assured. Do not remain in the area during treatment and ventilate thoroughly before re-entry.

**TO OPERATE VALVE:** To lock valve in open position for automatic discharge, press the valve button all the way down, hooking the catch. Then place fogger on stand or table in the center of the room with valve locked open, placing several layers of newspaper or pad under fogger. Leave building at once and keep building closed for two hours before airing out. Open all doors and windows and allow to air for 30 minutes.

#### USE LOCATIONS, AREAS AND SURFACES

For use in areas and on hard, nonporous, pre-cleaned non-food-contact surfaces not damaged by alcohol, such as the following:

**LOCATIONS** – Public/Private Industrial, Institutional, Commercial, Medical and Residential facilities, premises, buildings, equipment, and vehicles, such as hospitals, nursing homes, medical and dental offices and clinics, doctor's and dentist's offices, veterinary offices and animal hospitals; pet boarding facilities, household pet quarters, and zoos; schools; laboratories; auditoriums and stadiums; hotels and motels; restaurants and cafeterias; athletic and health clubs; night clubs, discos, bars, and taverns; markets, supermarkets and stores; food storage, processing, packaging, handling, and serving establishments and equipment; food processing plants, bakeries, bottling plants, and canneries; offices and office complexes; factories and manufacturing plants; laundries and dry cleaners; morgues, mortuaries, funeral homes, mausoleums, and burial vaults; apartment buildings and homes; loading ramps; autos, vans, minivans, pickups, motorcycles, motorbikes, bicycles, recreational vehicles, and boats; campers, trailers, and mobile homes; taxis, buses, trains, and public transportation; ambulances, police cars and vans, fire cars and trucks, and other emergency vehicles; trucks, trailers, and tankers; garbage trucks and waste haulers; railroad engines and cars; aircraft; ships/barges; containerized units; shipping containers; and dispensing and vending equipment.

**AREAS** – Bathrooms, kitchens, bedrooms, dining rooms, living rooms, recreation rooms, family rooms, atriums, laundry rooms, nurseries, closets, storage rooms, basements, cellars, attics, garages, sheds, outbuildings, doghouses, and pet quarters; operating rooms, wards, sickrooms, nurseries, labs, lounges, lobbies, and ambulances; embalming rooms; and gyms, tennis courts, bowling alleys, locker rooms, and shower rooms.

**ITEMS** – Toilets and toilet seats, urinals, toilet and urinal tanks, bathtubs, shower stalls, wash basins and sinks, bathroom fixtures, tiled surfaces, and partitions; walls, baseboards, floors, window sills, and ceilings; telephones and phone booths; bed frames and springs; counter and table tops; hoods, exhaust fans, and laminar flow cabinets and hoods; railings, faucet handles, door knobs, light switches, and other fixtures; halls, hallways, stairs, and stairways; elevators and escalators; plastic upholstery and furniture; wheelchairs and power carts; laundry, linen, dressing, clean-up, and equipment carts; laundry chutes and hampers; household and industrial trash compactors, refuse and solid waste cans/containers, garbage cans/containers, and garbage and food disposal units; portable toilets, chemical toilets, holding tanks, potties, bedpans, and diaper pails; chairs, benches, tables, counters, desks, bookcases, play pens, seating, and other furniture; cabinets, closets, and lockers; plumbing and plumbing fixtures; racks, conveyors, machinery, and appliances; sickroom utensils and medical equipment; janitorial equipment; barber and beauty shop instruments and equipment; embalming tables and instruments; athletic and gymnastic mats, shoes, and equipment; bowling, golfing, baseball, football, tennis, racquetball, soccer, camping, and sports gear and equipment; face masks, safety goggles, face hoods, safety helmets, headphones, and other safety equipment; dental patient's and operator's chairs, operator's light, working surfaces, bracket table, evacuator reservoir, tray racks and trays, x-ray control panel and button, viewers, waiting room furniture, and lab equipment; cuspidors and spittoons; brushes, clippers, razors, and grooming instruments; and many other similar public and private items.

**SURFACES/MATERIALS** – Ceramic/glass, elastomeric, metallic, and plastic, such as ABS, acrylic, aluminum (bare and

anodized), brass, cement (sealed), ceramic, chrome, concrete (sealed), copper, cork (sealed), enamel, grouting (sealed), iron (ductile and cast), leather and leatherette (sealed), nickel, phenolic-type resins (Bakelite®, Formica®, etc.), polyester, polyethylene, polypropylene, polystyrene, polyurethane (PA), porcelain, rubber, stainless steel, steel, tile (nonporous/sealed ceramic, plastic, and quarry), varnish, vinyl, wood/woodwork (sealed/finished), zinc. Specific plastic, elastomeric, and polymeric surfaces/materials – Acrylonitrile-butadiene-styrene (ABS), aramid, buna (polybutadiene), butyl rubber (isobutylene-isoprene copolymer), chlorinated polyvinyl chloride (CPVC), epoxy resin, ethylene-propylene (FEP), latex rubber (natural or synthetic), neoprene (polychloroprene), nitrile rubber, phenolic resin, polyallomer (PA), polyamide (nylon), polybutylene terephthalate, polycarbonate, polyester, polyethylene (PE; P/E; LDPE; HDPE; XLPE), polyethylene terephthalate (PET), polymethylmethacrylate (PMMA), polymethylpentene (PMP), polyolefin, polyoxymethylene (acetal), polyphenylene oxide (PPO), polypropylene (PP; P/P), polystyrene (PS), polysulfone (PSF), polytetrafluoroethylene (PTFE), polyurethane, polyvinyl chloride (PVC), polyvinyl acetate (PVA), polyvinylidene fluoride (PVDF), silicone rubber and resin, styrene-butadiene rubber (SBR), TPA rubber, and vinylidene fluoride-hexafluoropropylene copolymers.

Registered trademarks for the materials above include: Bakelite® (phenol-formaldehyde resin and other plastics), Celcon® (acetal resin), Dacron® (polyester; polyethylene terephthalate), Delrin® (acetal resin), Dynel® (acrylonitrile-vinyl chloride copolymer), Formica® (melamine/phenolic resins), Halar® ECTFE (ethylenechlorotrifluoroethylene copolymer), Hastelloy®, Inconel®, Kevlar® (polyamide; aramid), Lexan® (polycarbonate resin), Lucite® (acrylic resins), Melmac® (melamine-formaldehyde resin), Mylar® (polyester; polyethylene terephthalate), Nomex® (polyamide; aramid), Orlon® (polyacrylonitrile), Plexiglas® (acrylic resins), Tedlar® (polyvinylfluoride), Teflon® TFE (tetrafluoroethylene), Teflon® FEP (fluorinated ethylene-propylene), Teflon® PFA (perfluoroalkoyl), Thiokol® (Polysulfide® rubber), Viton® (vinylidene fluoride/hexafluoropropylene copolymer).

Halar is a registered trademark of Allied-Signal Corporation.

Melmac is a registered trademark of American Cyanamid Company.

Celcon is a registered trademark of Hoechst-Celanese Corporation.

Dacron, Delrin, Dynel, Kevlar, Lucite, Mylar, Nomex, Orlon, Tedlar, Teflon, and Viton are registered trademarks of E. I. DuPont de Nemours & Company.

Formica is a registered trademark of Formica Corporation.

Lexan is a registered trademark of General Electric Corporation.

Inconel is a registered trademark of International Nickel Co., Inc.

Plexiglas is a registered trademark of Rohm & Haas Company.

Thiokol and Polysulfide are registered trademarks of Thiokol Chemical Corporation.

Bakelite and Hastelloy are registered trademarks of Union Carbide Corporation.

Not recommended for use on cellulose, water-based "latex" paint, fine leather, polished/waxed surfaces, cellulose/nylon, or shellac. The list above is given only as a guide; many surfaces/materials are made of chemical blends, and may be more or less resistant to damage than the pure chemicals. Pretest all housekeeping products for compatibility before using them on critical or valuable surfaces/materials.