SURFACE DISINFECTANTS

Every Day

Every Patient

Every Time
At Henry Schein Medical we support your efforts toward maintaining the total health of your patients and your practice. We provide the products and services that enhance your clinical capabilities. Surface disinfection is a critical component of your practice and in protecting patients and your staff.

Consider a typical patient care area in your facility. Think about how many times patients, clinicians, housekeeping staff, visitors, maintenance staff, and others enter and exit this area and touch, light switches, file handles, countertops, desks, bed rails, doorknobs and other surfaces. What happens if these individuals have dirty, contaminated hands? Imagine the potential for transmission of dangerous pathogens within your practice.

According to the Centers for Disease Control and Prevention (CDC), cleaning and disinfecting environmental surfaces in healthcare facilities is fundamental in reducing the potential contribution of those surfaces to the incidence of healthcare-associated infections (HAIs). In addition to proper hand hygiene, cleaning and disinfecting can help to minimize the transfer of microorganisms that can occur via hand contact between contaminated surfaces and patients.

Always follow the CDC guidelines and industry best practices for cleaning and disinfecting environmental surfaces. Keep in mind that cleaning is the necessary first step of any sterilization or disinfection process and is needed to render the environmental surface safe to handle or use by removing organic matter, salts, and visible soils—all of which interfere with microbial inactivation. In fact, the physical action of scrubbing with detergents and surfactants and rinsing with water removes large numbers of microorganisms from surfaces. Visit [www.cdc.gov](http://www.cdc.gov) for more information.

### Surface Disinfection Basics

- **Know Your Surfaces:**
  - Medical Surfaces: All equipment, including knobs or handles on machines, and carts
  - Porous Surfaces: Exam tables, office chairs, wood furniture
  - Housekeeping Surfaces: floors, walls, cabinets, and tabletops
- **Know Your Chemicals and Consider:**
  - Product-surface compatibility
  - Product safety
  - Acceptability by staff
- **Protect Yourself and Others:**
  - Refer to manufacturer’s instructions
  - Keep Material Safety Data Sheets (MSDS) conveniently located
  - Personal Protection Equipment
- **Protect Your Tools:**
  - Minimize contamination of cleaning solutions
  - Read labels

### Henry Schein Brand Products

Look for the Henry Schein Brand products throughout this flyer. You can rely on the Henry Schein Brand name for high-quality products that provide extra value at reasonable prices. From exam room supplies, gloves, and rapid diagnostics to diagnostic equipment, you’ll find diverse product options that help you achieve greater patient satisfaction, enhanced productivity and increased revenue for your practice. Additionally, our product line has met our high standards to earn the Henry Schein Seal of Excellence—your guarantee of satisfaction.
SURFACE CLEANING – Definition of Terms

a form of decontamination that renders the environmental surface safe to handle or use by removing organic matter, salts, and visible soils, all of which interfere with microbial inactivation.

Cleaners or Detergents are products that are used to remove soil, dirt, dust, organic matter, and germs (like bacteria, viruses, and fungi). Cleaners or detergents work by washing the surface to lift dirt and germs off surfaces so they can be rinsed away with water.

Disinfectants are chemical products that destroy or inactivate germs and prevent them from growing. Disinfectants have no effect on dirt, soil, or dust. Disinfectants are regulated by the U.S. Environmental Protection Agency (EPA). You can use a disinfectant after cleaning for surfaces that have visible blood or drainage from infected skin.

Disinfectants are generally grouped into three categories: low level, intermediate level, and high level. Low and intermediate-levels are used to disinfect environmental surfaces. High-level disinfectants are used to disinfect heat-sensitive semi-critical items (mucous membranes or nonintact skin) and should never be used on environmental surfaces.

- **High-Level Disinfecant**: a disinfection process that inactivates vegetative bacteria, mycobacteria, fungi, and viruses but not necessarily high numbers of bacterial spores. The FDA further defines a high-level disinfectant as a sterilant used under the same contact conditions except for a shorter contact time.

- **Hospital Disinfectant**: is a liquid germicide that is registered by the EPA for use on inanimate objects in hospitals, clinics, or any other medical-related facility. Efficacy has been demonstrated against Salmonella enterica (formerly Salmonella Choleraesuis), Staphylococcus aureus, and Pseudomonas aeruginosa.

- **Intermediate-Level Disinfecant**: is a liquid chemical germicide that is registered by the EPA as a hospital disinfectant and with a label claim of potency as a tuberculocidal. Destroys vegetative bacteria, most fungi, and most viruses; does inactivates Mycobacterium tuberculosis varbovis. Not necessarily capable of killing bacterial spores.

- **Low-Level Disinfecant**: is a liquid chemical germicide that is registered by the EPA as a hospital disinfectant. Destroys most vegetative bacteria, some fungi, and some viruses. Does not inactivate Mycobacterium tuberculosis varbovis.

Sanitizers are used to reduce germs from surfaces but not totally get rid of them. Sanitizers reduce the germs from surfaces to levels that are considered safe.

Sterilization is a process that destroys or eliminates all forms of microbial life, including bacterial spores. Antimicrobial products are registered as pesticides under the U.S. Environmental Protection Agency (EPA) which uses this definition for antimicrobial pesticides.

Antimicrobial pesticides are substances or mixtures of substances used to destroy or suppress the growth of harmful microorganisms whether bacteria, viruses, or fungi on inanimate objects and surfaces. Antimicrobial pesticides have two major uses: (1) disinfect, sanitize, reduce, or mitigate growth or development of microbiological organisms; (2) protect inanimate objects (e.g., floors and walls), industrial processes or systems, surfaces, water, or other chemical substances from contamination, fouling, or deterioration caused by bacteria, viruses, fungi, protozoa, algae, or slime.

**SOURCE:** Center for Disease and Prevention (CDC)
CDC Guidelines for Surface Cleaning & Disinfection in Health Care Facilities

The ultimate goal of the Recommendations for Surface Cleaning and Disinfection in Health Care Facilities is to reduce rates of health-care–associated infections (HAIs) through appropriate use of both disinfection and sterilization. Each recommendation is categorized according to scientific evidence, theoretical rationale, applicability, and federal regulations.

**CDC Summary: Category Rankings**

**Category IA:** Strongly recommended for implementation and strongly supported by well-designed experimental, clinical, or epidemiologic studies.

**Category IB:** Strongly recommended for implementation and supported by some experimental, clinical, or epidemiologic studies, and by a strong theoretical rationale.

**Category IC:** Required by state or federal regulations. Because of state differences, readers should not assume that the absence of an IC recommendation implies the absence of state regulations.

**Category II:** Suggested for implementation and supported by suggestive clinical or epidemiologic studies or by a theoretical rationale. No recommendation. These include practices for which insufficient evidence or no consensus exists regarding efficacy.

**CDC now recommends:**

- Do not perform disinfectant fogging in patient-care areas. **Category IB**
- Avoid large-surface cleaning methods that produce mists or aerosols, or disperse dust in patient-care areas. **Category IB**
- Use appropriate dusting methods for patient-care areas designated for immune-compromised patients (e.g., HSCT patients). **Category IB**
- Wet dust horizontal surfaces daily by moistening a cloth with a small amount of an EPA-registered hospital detergent/disinfectant. **Category IB**
- Close the doors of immune-compromised patients’ rooms when vacuuming, waxing, or buffing corridor floors to minimize exposure to airborne dust. **Category IB**
- After the last surgical procedure of the day or night, wet vacuum or mop operating room floors with a single-use mop and an EPA-registered hospital disinfectant. **Category IB**
- Do not use mats with tacky surfaces at the entrances to operating rooms or infection-control suites. **Category IB**
- Keep vacuums in good repair and equip vacuums with HEPA filters for use in areas with patients at risk. **Category IB**
- Do not use phenolics or any other chemical germicide to disinfect bassinets or incubators during an infant’s stay. **Category IB**
Proper surface cleaning and disinfection is one of the most important ways to prevent healthcare-associated infections (HAI’s). Infections transmission occurs when the gloved or ungloved hands of healthcare workers come in contact with contaminated surface and/or there is patient contact with contaminated surfaces or equipment. Studies have shown that contamination of the environment has likely contributed to the spread of resistant pathogens Methicillin-Resistant Staphylococcus Aureus (MRSA).

Source: Centers for Disease and Prevention (CDC)

- When performing low- or intermediate-level disinfection of environmental surfaces in nurseries and neonatal units, avoid unnecessary exposure of neonates to disinfectant residues on these surfaces by using EPA-registered germicides in accordance with manufacturers' instructions and safety advisories. Category IB, IC.
- When using phenolic disinfectants in neonatal units, prepare solutions to correct concentrations in accordance with manufacturers' instructions, or use premixed formulations. Category IB, IC
- Select EPA-registered disinfectants, if available, and use them in accordance with the manufacturer’s instructions. Category IC
- Do not use high-level disinfectants/liquid chemical sterilants for disinfection of either noncritical instruments and devices or any environmental surfaces; such use is counter to label instructions for these toxic chemicals. Category IC
- Follow manufacturers’ instructions for cleaning and maintaining noncritical medical equipment. Category II
- In the absence of a manufacturer’s cleaning instructions, follow certain procedures:
  - Clean noncritical medical equipment surfaces with a detergent/disinfectant. This may be followed by an application of an EPA-registered hospital disinfectant with or without a tuberculocidal claim (depending on the nature of the surface and the degree of contamination), in accordance with germicide label instructions. Category II
  - Do not use alcohol to disinfect large environmental surfaces. Category II
  - Use barrier protective coverings as appropriate for noncritical surfaces that are
    1. touched frequently with gloved hands during the delivery of patient care;
    2. likely to become contaminated with blood or body substances; or
    3. difficult to clean (e.g., computer keyboards) Category II
- Keep housekeeping surfaces (e.g., floors, walls, tabletops) visibly clean on a regular basis and clean up spills promptly. Category II
- Use a one-step process and an EPA-registered hospital detergent/disinfectant designed for general housekeeping purposes in patient-care areas.
- Follow proper procedures for effective uses of mops, cloths, and solutions. Category II
  - Prepare cleaning solutions daily or as needed. Replace with fresh solution frequently according to facility policies and procedures.
  - Change the mop head at the beginning of each day and also as required by facility policy, or after cleaning up large spills of blood or other body substances.
  - Clean mops and cloths after use and allow them to dry before reuse; or use single-use, disposable mop heads and cloths.

Source: Centers for Disease and Prevention (CDC), Managing Infection Control

For an Interactive Survey, Incentives & Information, logon to:
Categories of Disinfectants

Surface disinfectants are grouped according to their make-up and capabilities.

**Phenolic compounds**

These low- to mid-level surface disinfectants are designed for non-critical and semi-critical areas. These compounds are not ideal for use in healthcare settings, as they are highly toxic, flammable and corrosive. They tend to leave a residual film that can damage some surfaces and cause skin irritation.

**Iodophors**

These are generally considered outdated and are not consistently effective. However, they emit minimal odor and are non-corrosive and inexpensive. They can be used for disinfecting non-critical and semi-critical areas.

**Chlorine and chlorine compounds**

While chlorine compounds are effective disinfectants, they tend to corrode many metal surfaces and bleach color. They are highly toxic and may act as a skin and inhalation irritant.

**Alcohols**

These are active against all types of vegetative bacteria and fungi. They can be used to disinfect some non-critical and semi-critical items. But, because they evaporate quickly, it is difficult to obtain wet contact times for surface disinfecting.

**Quaternary ammonium compounds**

These are the most commonly used of hard-surface disinfectants. Quaternary disinfectants are odorless, non-corrosive, stable in high temperatures and have low toxicity and low skin irritation.

**Quaternary ammonium/alcohol based disinfectants**

The alcohol in these products causes them to quickly dissipate, leaving little or no residue. Disinfectants with less than 20 percent alcohol do not damage surfaces, whereas those with over 20 percent alcohol do damage surfaces. However, higher alcohol concentrations provide faster kill times. Surface disinfectant wipes- Wipes are convenient and easy to use, but different brands contain different chemicals, so they vary in their use and effectiveness. They are useful for cleaning surfaces that cannot be immersed in liquids.

**SOURCE:** Repertoire Magazine, METREX,
All surface disinfectants intended for use in healthcare settings must be registered with the Environmental Protection Agency (EPA). EPA-registered products should kill pseudomonas, staphylococcus and salmonella, as well as tuberculosis and hepatitis B virus. Physicians and healthcare staff should evaluate the active ingredients used in various surface disinfectants, since different patient care areas have different requirements. When products are used incorrectly, they may be less effective.

Source: Centers for Disease and Prevention (CDC)
### Disinfectant Helpful User Guide

<table>
<thead>
<tr>
<th>Disinfectant</th>
<th>Uses</th>
<th>Advantages</th>
<th>Disadvantages</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alcohols</strong></td>
<td>Intermediate level disinfectant</td>
<td>Fast acting</td>
<td>Volatile; evaporation may diminish concentration; may harden rubber or cause deterioration of glues</td>
</tr>
<tr>
<td></td>
<td>Disinfect thermometers, external surfaces of some equipment (e.g., stethoscopes); equipment used for home health care; used as a skin antiseptic</td>
<td>No residue</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low level disinfectant</td>
<td>Non staining</td>
<td></td>
</tr>
<tr>
<td><strong>Chlorine</strong></td>
<td>Intermediate level disinfectant</td>
<td>Low cost</td>
<td>Corrosive to metals; inactivated by organic material; irritant to skin and mucous membranes</td>
</tr>
<tr>
<td></td>
<td>Disinfect hydrotherapy tanks, dialysis equipment, cardiopulmonary training manikins, environmental surfaces</td>
<td>Fast acting</td>
<td>Use in well-ventilated areas; shelf life shortens when diluted (1:9 parts water)</td>
</tr>
<tr>
<td></td>
<td>Effective disinfectant following blood spills; aqueous solutions (5000 ppm /1:10 bleach) used to decontaminate area after blood has been removed; sodium dichloroisocyanurate powder sprinkled directly on blood spills for decontamination and subsequent cleanup</td>
<td>Readily available in non hospital settings</td>
<td></td>
</tr>
<tr>
<td><strong>Iodophors</strong></td>
<td>Intermediate-level disinfectant for some equipment (hydrotherapy tanks, thermometers)</td>
<td>Rapid action</td>
<td>Note: Antiseptic iodophors are NOT suitable for use as hard surface disinfectant; may burn tissue; inactivated by organic materials; may stain fabrics and synthetic materials</td>
</tr>
<tr>
<td></td>
<td>Low level disinfectant for hard surfaces and equipment that does not touch mucous membranes (e.g., IV poles, wheelchairs, beds, call bells)</td>
<td>Relatively free of toxicity and irritancy</td>
<td></td>
</tr>
<tr>
<td><strong>Peracetic acid</strong></td>
<td>High level disinfectant or sterilant for heat sensitive equipment</td>
<td>Innocuous decomposition (water, oxygen, acetic acid, hydrogen peroxide)</td>
<td>Can be corrosive; unstable when diluted</td>
</tr>
<tr>
<td></td>
<td>Higher concentrations used as chemical sterilants in specially designed machines for decontamination of heat sensitive medical devices</td>
<td>Rapid action at low temperature</td>
<td></td>
</tr>
<tr>
<td><strong>Phenolics</strong></td>
<td>Low/intermediate level disinfectants</td>
<td>Leaves residual film on environmental surfaces</td>
<td>Do not use in nurseries; not recommended for use on food contact surfaces; may be absorbed through skin or by rubber; Some synthetic flooring may become sticky with repetitive use</td>
</tr>
<tr>
<td></td>
<td>Clean floors, walls, and furnishings</td>
<td>Commercially available with added detergents to provide one-step cleaning and disinfecting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clean hard surfaces and equipment that does not touch mucous membranes (e.g., IV poles, wheelchairs, beds, call bells)</td>
<td>Active in presence of organic materials</td>
<td></td>
</tr>
<tr>
<td><strong>Quaternary ammonium compounds</strong></td>
<td>Low level disinfectant</td>
<td>Generally nonirritating to hands</td>
<td>UA NOT use to disinfect instruments; non-corrosive</td>
</tr>
<tr>
<td></td>
<td>Clean floors, walls, and furnishings</td>
<td>Usually have detergent properties</td>
<td>Limited use as disinfectant because of narrow microbiocidal spectrum</td>
</tr>
<tr>
<td></td>
<td>Clean blood spills</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CONTAMINATION?

NOT ON MY WATCH:

At KIMBERLY-CLARK PROFESSIONAL®,
we’re as serious as you are about disinfection.

The KIMTECH® WETTASK® System features wipers specifically designed to be compatible with quaternary amine and bleach disinfectant solutions. Cotton rags aren’t. That’s why the WETTASK® System is an ideal choice when it comes to optimizing your cleaning and disinfection practices.

See a product demonstration and request a free sample:
www.kimtech.com/wettasksample

Download the whitepaper:
www.kimtech.com/whitepaper

<table>
<thead>
<tr>
<th>KCP Code</th>
<th>HS#</th>
<th>Description</th>
<th>Size W&quot; x L&quot;</th>
<th>Rolls/Case</th>
<th>Sheets/roll</th>
</tr>
</thead>
<tbody>
<tr>
<td>66411</td>
<td>643-0139</td>
<td>WETTASK® System - Free bucket included with case</td>
<td>12&quot; x 12.5&quot;</td>
<td>6</td>
<td>80</td>
</tr>
<tr>
<td>77320</td>
<td>643-0219</td>
<td>WETTASK® System - Free small canister included with case</td>
<td>12&quot; x 12.5&quot;</td>
<td>12</td>
<td>35</td>
</tr>
</tbody>
</table>

The WETTASK® System consists of a dry roll of the KIMTECH® Wiper of your choice placed in our reusable, closed bucket or small canister. You add the disinfectant you normally use.

*® Trademarks of Kimberly-Clark Worldwide, Inc. or its affiliates. Marquesasignas de Kimberly-Clark Worldwide, Inc. ou de ses filiales. © 2011 KKW. #22244 C588-11-14

For an Interactive Survey, Incentives & Information, logon to:
10 Questions to Answer before Selecting a Disinfectant–Cleaner

1. Does the product have an EPA Registration Number?
2. What is the active ingredient? (Quats, Phenolics, Chlorine Bleach, Iodophors, or Alcohol?)
3. Is it safe for daily use by the user?
4. Will it damage the surfaces cleaned with it?
5. What germs does it kill?
6. What is the dilution ratio of the product?
7. Is it a “one-step” disinfectant-cleaner, disinfectant, food contact sanitizer?
8. Is it effective in hard water?
9. Is it effective in the presence of organic soil?
10. What is the end-use cost of the product?

REMEMBER...
When using cleaning, sanitizing, or disinfecting products ALWAYS:
• Consider the safety of children.
• Choose a product appropriate for the task.
• Follow the label instructions for mixing, using, and storing solutions.
• Read the warning labels.
• Store these products safely out of reach of children.
• Clean soiled surfaces and items before using sanitizers or disinfectants.
It’s All About the Time: Importance of Overall Contact Time. Manufacturers of disinfectants are required to list detailed information regarding efficacy claims and contact time for each class of microorganism for which the product is effective. This typically includes the classes of bacteria (both Gram-positive and Gram-negative), viruses, mycobacterium and fungi. In accordance with the current requirements from the EPA, labels must also provide detailed information on the product’s effectiveness against bloodborne pathogens including HIV, hepatitis B virus and hepatitis C virus. Since it is impossible to know what microorganisms are present on the environmental surface without using advanced laboratory methods, the surface should be assumed to be contaminated. Utilizing the longest contact time will ensure that all microorganisms included on the product’s label are successfully inactivated. *Source: Infection Control Today

**Microorganisms**

- **Bactericidal**
- **Tuberculocidal**
- **Virucidal**
- **Fungicidal**
- **Other**

**EPA Requirements**

- Detailed information on efficacy claims and contact time for each class of microorganism for which the product is effective.
- Labels must provide information on the product’s effectiveness against bloodborne pathogens.

**Time Considerations**

- **Overall Contact Time**
- **Specific Contact Times** for different microorganisms.

**Products Listed**

- **DisCide® ULTRA**
- **VIRAGUARD®**
- **Enviroicide®**

**Sources**

- Infection Control Today
- EPA
- CDC

**For More Information**


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**Palmero Health Care**

**DisCide® ULTRA**

Ready-to-use dual-chain, quaternary ammonium/high-level alcohol solution that has been used in hospitals for years. Clinically proven to kill microorganisms on hard, inanimate, nonporous surfaces, reducing the risk of infection and cross contamination. Effectively kills HBV, HCV, human coronavirus, SARS, TB, MRSA, VRE, HIV-1 (AIDS virus), herpes, adenovirus, staphylococcus, *Pseudomonas aeruginosa*, *Salmonella choleraesuis*, E. coli, and is fungicidal—all in just 1 minute. This cleaner and disinfectant has a safe formula that is noncorrosive and nonstaining, and it leaves behind a pleasant herbal scent with no messy residue. EPA registered: meets disinfection requirements of OSHA’s Bloodborne Pathogens Standard.

- 1-qt Trigger-Spray Bottle
- 1-gal Refill

**Wall Mount Bottle Holder**

For 32-oz Bottles of DisCide® and DisCide® TB

- 134-4435

**MadaCide-FD**

Ready-to-use, dual-quaternary formulation with 21% isopropanol to provide fast-drying (FD), broad-spectrum activity. Kills HIV-1 and herpes in 30 seconds, poliovirus in 3 minutes, and TB in 6 minutes.

- 32-oz Trigger Spray Bottle
- 1-gal Refill Bottle

**VIRAGUARD®**

Ready-to-use hospital disinfectant with no residue. Safe for a wide variety of hard surfaces, including vinyl upholstery. Nontoxic, high-isopropyl-alcohol germicidal formula. Kills a broad range of pathogens and viruses such as HIV-1 in 60 seconds. Tuberculocidal, virucidal, bactericidal, and fungicidal. Citrus fragrance.

- 16 oz. Spray Bottle
- 1-gal Refill

**Enviroicide®**

Hospital-grade, general-purpose disinfectant/cleaner that is proven to kill TB in 5 minutes and HBV in 3 minutes. EPA registered as a broad-spectrum disinfectant for both surface and immersive use. Bactericidal, virucidal, tuberculocidal, and fungicidal. Ready to use for cleaning and disinfecting equipment, surfaces and noncritical instruments.

- 24-oz Trigger Spray Bottle
- 1-gal Refill

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**The Help Center:**

**Clean Spaces,**

**Healthy Patients Campaign:**

Leaders in Infection Prevention and Environmental Services Working Together for Better Patient Outcomes. APIC, in collaboration with the Association for the Healthcare Environment (AHE) focus on improving patient outcomes by building a bridge between infection preventionists and the environmental services.

- [www.apic.org](http://www.apic.org)

**CDC Principles of Cleaning & Disinfecting Environmental Surfaces—VIDEO**

- [www.metrex.com](http://www.metrex.com)

**“New” Speak Up—VIDEO**

The Joint Commission released the second in its series of animated Speak Up™ videos, this one on infection control. The entertaining 60-second videos are produced by The Joint Commission to encourage patients to speak up and be active participants in their healthcare. They are intended as public service announcements and are now airing on The Joint Commission’s YouTube channel.

- [http://www.youtube.com/user/TheJointCommission](http://www.youtube.com/user/TheJointCommission)

**Learn How to Be a Champion— FREE WEBINAR**

To promote a culture within the healthcare professions where targeting the reduction of healthcare-associated infections is fully embraced, APIC has created The Champion’s Kit. This kit is part of an initiative to accelerate both learning and delivery of practical tools for infection preventionists.

- [www.pdpdi.com](http://www.pdpdi.com)

**Infection Control Protocols for High Risk Areas in Every Hospital**

- [www.cloroxprofessional.com](http://www.cloroxprofessional.com)

**Mobile Health Snap 2011 ICT State of the Industry Report**

Text INFECTION to 41411 to receive this health snap to your smart phone.

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**MAXI Wipes** are one of the many disposable products you can depend on every day. Strong, **nonallergenic, pre-moistened towelettes**, are ready-to-use and soft to the touch.

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**A QUICK REFERENCE GUIDE TO CHOOSING A DISINFECTANT:**

<table>
<thead>
<tr>
<th></th>
<th>Speed</th>
<th>Toxicity</th>
<th>Odor</th>
<th>Staining Ability</th>
<th>Corrosive Ability</th>
<th>Convenience</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Glutaraldehyde</strong> (concentrate)</td>
<td>P</td>
<td>XP</td>
<td>P</td>
<td>G</td>
<td>G</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td><strong>Phenol</strong> (concentrate)</td>
<td>P</td>
<td>XP</td>
<td>G</td>
<td>G</td>
<td>G</td>
<td>P</td>
<td>E</td>
</tr>
<tr>
<td><strong>Phenol</strong> (RTU)</td>
<td>P</td>
<td>XP</td>
<td>G</td>
<td>G</td>
<td>G</td>
<td>E</td>
<td>G</td>
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<tr>
<td><strong>Indophore</strong> (concentrate)</td>
<td>P</td>
<td>G</td>
<td>G</td>
<td>P</td>
<td>E</td>
<td>P</td>
<td>E</td>
</tr>
<tr>
<td><strong>Bleach</strong> (RTU)</td>
<td>E</td>
<td>G</td>
<td>XP</td>
<td>G</td>
<td>P</td>
<td>E</td>
<td>G</td>
</tr>
<tr>
<td><strong>Quat</strong> (RTC)</td>
<td>P</td>
<td>E</td>
<td>E</td>
<td>G</td>
<td>E</td>
<td>E</td>
<td>G</td>
</tr>
<tr>
<td><strong>Quat (&lt;0.20%) Alcohol (&gt;10%)</strong> (RTU)</td>
<td>E</td>
<td>E</td>
<td>G</td>
<td>E</td>
<td>E</td>
<td>E</td>
<td>G</td>
</tr>
<tr>
<td><strong>Quat (&lt;0.20%) Alcohol (&lt;40%)</strong> (RTU)</td>
<td>P</td>
<td>E</td>
<td>G</td>
<td>E</td>
<td>E</td>
<td>E</td>
<td>G</td>
</tr>
</tbody>
</table>

Ratings: E = Excellent; G = Good; P = Poor; XP = Extremely Poor • Concentrate = requires dilution with water prior to use • RTU = ready to use

Source: Jeffrey Cittos D.M.D., FALD

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**MAXIWIPE™**

- Strong, real-cloth wipes are presaturated with the correct amount of solution
- No mixing, no measuring — just pull, wipe, and throw away
- Eliminates hazards of airborne sprays
- Kills TB in 5 minutes; HBV, MRSA, and VRE in 3 minutes; and RSV in only 1 minute
- Unique deep-well lid seals securely to prevent moisture loss
- EPA registered

**MAXISPRAY® PLUS**

- Hospital-level, general-purpose disinfectant/cleaner proven to kill TB in 5 minutes; and HBV, HIV, and HCV in 3 minutes. It is also EPA-registered as a broad-spectrum disinfectant for both surface and immersion use. Bactericidal, virucidal, tuberculocidal, and fungicidal. Ready to use in cleaning and disinfecting equipment surfaces and noncritical areas.
- Easy, ready-to-use formula: no mixing, measuring, or rinsing required
- Compatible with most medical/dental device material
- Safe to use in neonatal and infant-care areas
- Contains no phenols
- Nontoxic and nonirritating
- Satisfies OSHA’s Bloodborne Pathogens Standard

**MAXISPRAY® PLUS**

- Large (106-8794) .......................... 160/cont
- X-Large (112-5305) ...................... 65/cont

**MAXISPRAY® PLUS**

- 24-oz Trigger-Spray Bottle
  - (101-4114) ..................................................... ea
- 1-gal Refill
  - (101-0285) ..................................................... ea

**MAXISPRAY® PLUS**

- 24-oz Trigger-Spray Bottle
  - (101-4114) ..................................................... ea
- 1-gal Refill
  - (101-0285) ..................................................... ea

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*Source: Jeffrey Cittos D.M.D., FALD*
Guidelines & Recommendations:

CDC Recommends:
- Know the difference between cleaning, disinfecting and sanitizing.
- Cleaning removes germs, dirt, and impurities from surfaces or objects. Cleaning works by using soap (or detergent) and water to physically remove germs from surfaces. This process does not necessarily kill germs, but by removing them, it lowers their numbers and the risk of spreading infection.
- Disinfecting kills germs on surfaces or objects. Disinfecting works by using chemicals to kill germs on surfaces or objects. This process does not necessarily clean dirty surfaces or remove germs, but by killing germs on a surface after cleaning, it can further lower the risk of spreading infection.
- Sanitizing lowers the number of germs on surfaces or objects to a safe level, as judged by public health standards or requirements. This process works by either cleaning or disinfecting surfaces or objects to lower the risk of spreading infection.
- Clean and disinfect surfaces and objects that are touched often.
- Do routine cleaning and disinfecting.
- Clean and disinfect correctly.
- Use products safely – follow all product directions.
- When using disinfectants allow surface to air dry.
- Handle waste properly
- Wash your hands.

REMEMBER when using QUATS:
Read the label and follow the manufacturer’s directions exactly:
- how to mix product.
- how to apply the solution.*
- how long to leave on the surface.
- whether to rinse after exposure time.
- safety concerns when used around children.

The solution for use on food contact surfaces may differ from that used for general disinfection. Read the label and follow the directions exactly. For more information about a specific product call the distributor of the company.

Citrastatâ® Air Freshener
Quickly eliminates odors, leaving the air naturally fresh without chemicals. Non-aerosol. Made from concentrated purified oils extracted from freshly ripened citrus fruit. 100% natural, completely organic, and non-toxic. Completely biodegradable and environmentally safe.

Specify:
- Orange ............................ (331-0667)
- Lemon ............................ (331-7522)
- Lime ............................... (331-5327)
- Grapefruit ......................... (437-0794)

Citricide® Hospital Disinfectant/Deodorizer
Highly effective, EPA-registered formula is germicidal, virucidal, and fungicidal. Effective against TB and HIV-1 (AIDS virus).

Specifying:
- Highly effective formula
- Fresh, clean citrus scent
- Fine particle spray

LYSOL® Disinfectant Spray
Kills 99.9% of viruses and bacteria* on commonly touched, hard, non-porous surfaces in your home. Help protect your family from germs they could come in contact with every day.

Specify:
- 19-oz Can Crisp Linen (358-2378) ........................................ ea
- 24-oz Aerosol Spray Can (358-2719) ........................................ ea
- 12.5-oz Aerosol Spray, Fresh Scent (358-3570) .................. ea
- 19-oz Spray Can (358-8587) ........................................ ea

Citrus II® Air Fragrance
The fresh, all natural way to eliminate tough odors on contact. 100% natural citrus air fragrance doesn’t just mask strong odors, it destroys them instantly. Any airborne odor! Air fragrance remains active in the air to keep rooms odor-free for hours!

Specify:
- #632112923, Original Scent ............... (100-8671)
- #632112924, Natural Lemon Scent ................. (101-4657)

*The solution for use on food contact surfaces may differ from that used for general disinfection. Read the label and follow the directions exactly. For more information about a specific product call the distributor of the company.
Every day, infection preventionists (IPs) and other healthcare personnel face significant challenges due to evolving technology, healthcare reform, and, of course, time constraints. Choosing the right disinfectant products must be a carefully made decision but it shouldn’t be burdensome. Yet, because healthcare products are continually being released, updated and retired from the marketplace, IPs would be challenged to monitor the status of every single item within their facilities. A methodical approach to evaluate and effectively use healthcare disinfectants include: understanding product labels, evaluating broad spectrum efficacy claims, adhering to overall contact time and most importantly educating staff to improve compliance. Source: infectioncontroltoday.com
Outlining What to Clean and How To Clean It

To ensure regular and appropriate surface cleaning, healthcare organizations should have protocols for different areas of the facility and the environmental surfaces within those areas. These protocols should outline activities to effectively reduce the bio-burden on environmental surfaces and lessen the likelihood that surfaces could serve as a source for pathogenic agents. Such protocols should also help create an attractive healing environment for patients, healthcare personnel, and all others.

The fundamental goal of cleaning protocols is to describe what areas of the healthcare facilities must be cleaned and how they should be cleaned. When determining the cleaning activities in a particular area, healthcare organizations should consider two categories of environmental surfaces: items that need to be cleaned frequently and those less frequently. In most cases, routine cleaning is sufficient to prevent the spread of infection. Routine cleaning involves the use of a medical grade disinfectant which helps maintain a level of cleanliness. When describing cleaning techniques, healthcare organizations should be sure to note that the use of friction to physically remove visible dirt, organic material, and debris is critical to all cleaning and disinfecting efforts. In fact, the degree of scrubbing involved in cleaning is the most critical element in determining whether cleaning and disinfecting are ultimately effective. In other words, merely disinfecting a soiled area will not get it clean. Any visible soil must be removed first with proper soap and detergents before disinfection can take place.

Items That Need To Be Cleaned & Disinfected Frequently
Items that need to be cleaned and disinfected frequently have a high degree of handling and are high risk of cross-transmission. These can include horizontal surfaces, as well as “high touch” surfaces, including the following:

- All Doorknobs
- Knobs or Handles on ALL Medical Equipment
- Blood Pressure Cuffs
- Exam Room Counter
- Tray Tables
- Chairs
- Light Switches
- Telephones
- Bathroom Toilet Seats, Sinks, Flush Handles and Hand Rails
- Flush Handles
- Bed Rails
- TV Remotes
- Call Buttons

Items That Need Less Frequent Cleaning & Disinfecting
Items that need less frequent cleaning and disinfecting are handled less frequently and are not likely sources of infection. These can include the following:

- Floors Window Sills/ Curtains Ventilation Grilles
- Walls Lights
- Although it is unlikely that floors will cause the spread of infection, they should be immediately cleaned if they are visibly soiled.

SOURCE: Joint Commission on Accreditation of Healthcare Organizations: Environment of Care® News
You help people get well. We help them stay well.

HANDLE HYGIENE

Automatically disinfects 99.9% of germs at the most common contact point: door handles.

Order through Henry Schein: Device no. 121-0014 / Disinfectant Mist Refills no. 121-0015. For more information visit hyso.com.

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- Generate comprehensive utilization reports via our dynamic report wizard
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- Access purchase history and real-time pricing
- Custom shopping list capability for easy ordering
- Paperless billing statement option
- Shop by procedure, chronic conditions, or simple everyday essentials
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- Retrieve electronic statements and invoices for paperless environment
- 6 different specialty Web sites including Family Practice, Internal Medicine, and Pediatrics
- Access to promotions created uniquely for your specialty

www.henryschein.com/medical

For an Interactive Survey, Incentives & Information, logon to:
Restock the Supplies Your Practice Needs
EVERY DAY. EVERY PATIENT. EVERYTIME.

Exam Room Easy Order Form

<table>
<thead>
<tr>
<th>Account Number:</th>
<th>Facility Name:</th>
<th>Facility Location:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Size</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>101-0285</td>
<td>Maxispray Plus gallon</td>
<td>Ea.</td>
<td></td>
</tr>
<tr>
<td>106-6794</td>
<td>Maxiwipe Germicide Cloth - Large</td>
<td>160/Can</td>
<td></td>
</tr>
<tr>
<td>112-5305</td>
<td>Maxiwipe Germicidal Cloth - X-Large</td>
<td>65/Can</td>
<td></td>
</tr>
</tbody>
</table>

**SURFACE DISINFECTANTS**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Size</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>900-4444</td>
<td>Hand Foaming Sanitizer Non-Alcohol</td>
<td>18.6/Btl.</td>
<td></td>
</tr>
<tr>
<td>900-4445</td>
<td>Hand Foaming Sanitizer Non-Alcohol</td>
<td>2oz/Btl.</td>
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</tr>
<tr>
<td>900-4442</td>
<td>Hand Gel Sanitizer (Alcohol) pump</td>
<td>16oz/Btl.</td>
<td></td>
</tr>
<tr>
<td>900-4443</td>
<td>Hand Gel Sanitizer (Alcohol) pump</td>
<td>8oz/Btl.</td>
<td></td>
</tr>
<tr>
<td>900-4446</td>
<td>Hand Lotion Pump</td>
<td>8oz/Btl.</td>
<td></td>
</tr>
<tr>
<td>900-4439</td>
<td>Schein Hand Soap w/Treaded bottle</td>
<td>8oz/Btl.</td>
<td></td>
</tr>
<tr>
<td>900-4440</td>
<td>Hand Soap Antibacterial - gallon</td>
<td>Ea.</td>
<td></td>
</tr>
<tr>
<td>900-4441</td>
<td>Hand Soap Foaming Antibacterial - pump</td>
<td>18.6/Btl.</td>
<td></td>
</tr>
<tr>
<td>900-4438</td>
<td>Hand Soap Liquid Antibacterial - pump</td>
<td>16oz/Btl.</td>
<td></td>
</tr>
<tr>
<td>431-0099</td>
<td>Maxiclens Antimicrobial Soap</td>
<td>Gal./Btl.</td>
<td></td>
</tr>
<tr>
<td>431-0032</td>
<td>Maxiclens Antimicrobial Soap</td>
<td>Qt./Btl.</td>
<td></td>
</tr>
<tr>
<td>104-41076</td>
<td>Quick Wipes</td>
<td>150/Ea.</td>
<td></td>
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</table>

**HAND SOAPS, SANITIZERS AND WIPES**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Size</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>104-3809</td>
<td>Earloop Mask - Blue</td>
<td>50/Box</td>
<td></td>
</tr>
<tr>
<td>104-6611</td>
<td>Earloop Mask - White</td>
<td>50/Box</td>
<td></td>
</tr>
<tr>
<td>104-7799</td>
<td>Earloop Mask Procedural - Blue</td>
<td>50/Box</td>
<td></td>
</tr>
<tr>
<td>104-4632</td>
<td>Earloop Mask Sensitive - White</td>
<td>50/Box</td>
<td></td>
</tr>
<tr>
<td>104-6809</td>
<td>Tie On Surgical Mask Low Barrier - Blue</td>
<td>50/Box</td>
<td></td>
</tr>
<tr>
<td>101-1789</td>
<td>Isolation Gown Yellow</td>
<td>10/Pk.</td>
<td></td>
</tr>
<tr>
<td>104-9452</td>
<td>Cover Shoe Unisex Blue</td>
<td>50 Pr/Box</td>
<td></td>
</tr>
<tr>
<td>100-5800</td>
<td>Disposable Lab Gown White - Med/Lg</td>
<td>10/Pk.</td>
<td></td>
</tr>
<tr>
<td>104-5806</td>
<td>Maxi-Guard Disposable Gown</td>
<td>15/Box</td>
<td></td>
</tr>
<tr>
<td>101-2254</td>
<td>Disposable Face Shield</td>
<td>24/Bx</td>
<td></td>
</tr>
<tr>
<td>900-4436</td>
<td>Maxi-Gard Protect Eyewear Clr Lns - black Ea.</td>
<td></td>
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</table>

**Masks, Gowns, Shoe Covers & Eye Wear**

<table>
<thead>
<tr>
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<th>Description</th>
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<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>900-4214</td>
<td>Facial Tissue</td>
<td>100/Box</td>
<td></td>
</tr>
<tr>
<td>395-5793</td>
<td>Multi-Fold Towels - 9-¼” x 9-½”</td>
<td>4000/Ca.</td>
<td></td>
</tr>
<tr>
<td>100-0468</td>
<td>Cotton Ball Medium Non-Sterile</td>
<td>4000/Ca.</td>
<td></td>
</tr>
<tr>
<td>100-4752</td>
<td>Cotton Ball Medium Sterile</td>
<td>500/Box</td>
<td></td>
</tr>
<tr>
<td>100-0147</td>
<td>Cotton Roll Absorbent N/S</td>
<td>Box</td>
<td></td>
</tr>
<tr>
<td>100-9249</td>
<td>Cotton Tipped Applicator - Sterile 6”</td>
<td>100-Pk./2</td>
<td></td>
</tr>
<tr>
<td>100-9175</td>
<td>Cotton Tipped Applicator N/S - 6”</td>
<td>1000/Box</td>
<td></td>
</tr>
<tr>
<td>100-3902</td>
<td>Cups Plastic 5 oz. - white</td>
<td>1000/Ca.</td>
<td></td>
</tr>
<tr>
<td>100-4361</td>
<td>Cups Plastic 5 oz. - blue</td>
<td>1000/Ca.</td>
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</tr>
<tr>
<td>104-9869</td>
<td>Cups Plastic 5 oz. - Translucent</td>
<td>100/Pk.</td>
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</tr>
<tr>
<td>100-1797</td>
<td>Exam Drape Sheet 40” x 48” - white</td>
<td>100/Ca.</td>
<td></td>
</tr>
<tr>
<td>100-5728</td>
<td>Exam Gown Deluxe 30” x 42” - blue</td>
<td>50/Ca.</td>
<td></td>
</tr>
<tr>
<td>100-2392</td>
<td>Exam Gown Deluxe White 30” x 42”</td>
<td>50/Ca.</td>
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</table>

**DISPOSABLES**

<table>
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<tr>
<th>Item #</th>
<th>Description</th>
<th>Size</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-9305</td>
<td>Infectious Waste Bag–10 gallon</td>
<td>100/Ca.</td>
<td></td>
</tr>
<tr>
<td>100-8878</td>
<td>Infectious Waste Bag–18 gallon</td>
<td>100/Ca.</td>
<td></td>
</tr>
<tr>
<td>100-3416</td>
<td>Infectious Waste Bag–33 gallon</td>
<td>100/Ca.</td>
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</tbody>
</table>

**Gloves**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Size</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>900-7437</td>
<td>Criterion N200 PF Nitrile Glove - X-small</td>
<td>200/Box</td>
<td></td>
</tr>
<tr>
<td>900-7438</td>
<td>Criterion N200 PF Nitrile Glove - Small</td>
<td>200/Box</td>
<td></td>
</tr>
<tr>
<td>900-7439</td>
<td>Criterion N200 PF Nitrile Glove - Medium</td>
<td>200/Box</td>
<td></td>
</tr>
<tr>
<td>900-7440</td>
<td>Criterion N200 PF Nitrile Glove - Large</td>
<td>200/Box</td>
<td></td>
</tr>
<tr>
<td>900-7441</td>
<td>Criterion N200 PF Nitrile Glove - X-Large</td>
<td>180/box</td>
<td></td>
</tr>
<tr>
<td>102-5418</td>
<td>Criterion PC Glove PF Latex - X-Small</td>
<td>100/Box</td>
<td></td>
</tr>
<tr>
<td>102-5419</td>
<td>Criterion PC Glove PF Latex - Small</td>
<td>100/Box</td>
<td></td>
</tr>
<tr>
<td>102-5421</td>
<td>Criterion PC Glove PF Latex - Medium</td>
<td>100/Box</td>
<td></td>
</tr>
<tr>
<td>102-6730</td>
<td>Criterion PC Glove PF Latex - Large</td>
<td>100/Box</td>
<td></td>
</tr>
<tr>
<td>102-5422</td>
<td>Criterion PC Glove PF Latex - X-Large</td>
<td>90/Box</td>
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</tbody>
</table>

**INFECTIOUS WASTE BAGS**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Size</th>
<th>Qty.</th>
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</thead>
<tbody>
<tr>
<td>100-9305</td>
<td>Infectious Waste Bag–10 gallon</td>
<td>100/Ca.</td>
<td></td>
</tr>
<tr>
<td>100-8878</td>
<td>Infectious Waste Bag–18 gallon</td>
<td>100/Ca.</td>
<td></td>
</tr>
<tr>
<td>100-3416</td>
<td>Infectious Waste Bag–33 gallon</td>
<td>100/Ca.</td>
<td></td>
</tr>
</tbody>
</table>
**Surface Disinfection Solutions...**

- **CitriGuard® II**
  - HOSPITAL DISINFECTANT / CLEANER

- **EZ-Kill®**
  - DISINFECTING/DEODORIZING/CLEANING WIPES

- **CitriFoam®**
  - HOSPITAL DISINFECTANT / CLEANER

---

**Call Henry Schein**
800-772-4346

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<table>
<thead>
<tr>
<th>HSI #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>833-2853</td>
<td>32oz Spray bottle</td>
</tr>
<tr>
<td>833-6297</td>
<td>Gallon refill</td>
</tr>
<tr>
<td>437-0003</td>
<td>65 Wipes p/can (10 x 10 in)</td>
</tr>
<tr>
<td>437-7034</td>
<td>160 Wipes p/canister (6 x 6.75 in)</td>
</tr>
<tr>
<td>484-3341</td>
<td>20oz Can CitriFoam</td>
</tr>
</tbody>
</table>

For an Interactive Survey, Incentives & Information, logon to:
You wouldn’t expose your clothes to bleach unnecessarily at home. So, why expose patients and surfaces to bleach unnecessarily at work?

CaviWipes® and CaviCide®
Effective general surface disinfectants for everyday use.

CDC and AIPC recommend bleach for specific outbreaks. Over time, bleach can corrode equipment, damage surfaces and trigger respiratory difficulties for your staff. Choose CaviCide and CaviWipes, a nonbleach surface disinfectant for general, everyday use.

HSI #
640-0012 CaviCide Gallon
640-2261 CaviCide 24oz.
640-2805 CaviWipes Large
640-8482 CaviWipes X-Large

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