

Cleaning and Disinfection

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First Things First!

- Policies and Procedures
- Choice of Cleaning and Disinfectant Products
 - EPA-Registered Disinfectants
- Employee Education Examples
 - Return Demonstration
 - PPE
 - Product Choice and Preparation
 - Cleaning Supplies and Equipment
 - Cleaning and Disinfecting



US Environmental Protection Agency



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Pesticide Registration

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Pesticide Registration Manual

Fees and Waivers

Registration Information by Type of Pesticide

— Antimicrobial Registration

— Biopesticide Registration

— Conventional Registration

— Inert Ingredient Regulation

Requirements and Guidance

— Data

— Forms

— Labeling

Selected EPA-Registered Disinfectants

This page contains information on certain EPA-registered disinfectants, including links to lists of products registered against common pathogens like hepatitis or norovirus and a list of products registered against *Candida auris*.

On this page:

- [Antimicrobial products registered with EPA for claims against common pathogens](#)
- [Antimicrobial products registered with EPA for claims against *Candida auris*](#)
- [Information on registration numbers](#)
- [Additional information](#)

Antimicrobial Products Registered with EPA for Claims Against Common Pathogens

The following lists of antimicrobial products registered by EPA are effective against common pathogens, as indicated in the list titles. EPA-registered antimicrobial products may not make efficacy claims against these pathogens unless the Agency has reviewed data to support the claim and approved the claim on the label.

Use of the listed EPA-registered products consistent with the product labeling complies with the [Occupational Safety and Health Administration's requirements for Occupational Exposure to blood borne Pathogens \(29 CFR 1910\)](#), as well as proper management of any waste when disposed, which is regulated under the [Resource Conservation and Recovery Act \(RCRA\)](#).

If you would like to review the product label information for any of these products, please visit our [product label system](#). Inclusion on these lists does not constitute an endorsement by EPA.

EPA updates these registered disinfectant lists periodically to reflect label changes, cancellations, and transfers of product registrations. Information in the lists does not constitute a label replacement. Inclusion of products in these lists does not constitute an endorsement of one product over another. Before applying any EPA-registered disinfectant product, users must read the label to determine if the product is approved for the intended-use site or pest.

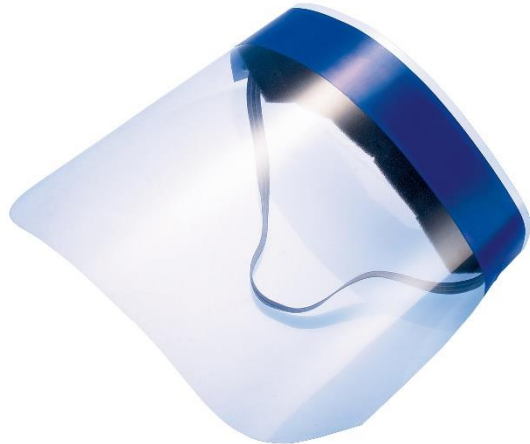
Information about listed products is current as indicated by the dates on the lists.

- [List A: EPA's Registered Antimicrobial Products as Sterilizers](#)
- [List B: EPA Registered Tuberculocide Products Effective Against *Mycobacterium tuberculosis*](#)
- **NEW** [List C: EPA's Registered Antimicrobial Products Effective Against Human HIV-1 Virus](#)
- [List D: EPA's Registered Antimicrobial Products Effective Against Human HIV-1 and Hepatitis B Virus](#)
- [List E: EPA's Registered Antimicrobial Products Effective Against *Mycobacterium tuberculosis* Human HIV-1 and Hepatitis B Virus](#)
- **NEW** [List F: EPA's Registered Antimicrobial Products Effective Against Hepatitis C Virus](#)
- **NEW** [List G: EPA's Registered Antimicrobial Products Effective Against Norovirus](#)
- [List H: EPA's Registered Antimicrobial Products Effective Against Methicillin Resistant *Staphylococcus aureus* \(MRSA\) and Vancomycin Resistant *Enterococcus faecalis* or *faecium* \(VRE\)](#)
- [List J: EPA's Registered Antimicrobial Products for Medical Waste Treatment](#)
- [List K: EPA's Registered Antimicrobial Products Effective Against *Clostridium Difficile* Spores](#)
- [List L: EPA's Registered Antimicrobial Products That Meet the CDC Criteria for Use Against the Ebola Virus](#)
- [List M: Registered Antimicrobial Products with Label Claims for Avian \(Bird\) Flu Disinfectants](#)
- [List N: Disinfectants for Use Against SARS-CoV-2](#)
- [List O: Disinfectants for Use Against Rabbit Hemorrhagic Disease Virus \(RHDV2\)](#)

PPE for Cleaning and Disinfection

Identify and Gather the PPE that you need

- Look at the sign
- Ask the nurse if you have any questions





Perform Hand Hygiene

Cleaning and Disinfection

Practical Application and Strategies



Policies and Procedures

- Housekeeping Policies and Procedures will provide direction to staff for:
 - Horizontal Surfaces
 - Carpeted Surfaces
 - Other Surfaces (i.e. doorknobs, handrails, etc.)
 - Terminal Cleaning
 - Schedules
 - Cleaning Tools
 - Trash removal
 - Handwashing facilities
 - Isolation Rooms
 - Chemical handling
 - Safety
 - Medical Equipment Cleaning



COVID-19 and the Environment



Cleaning Versus Disinfecting



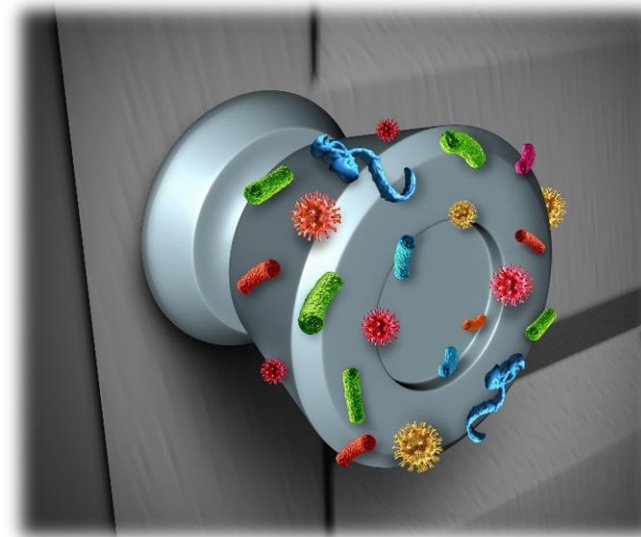
Use of Chemicals

- EPA List N against COVID-19
- Do you know how to use?
- Do you know how to dilute?
- Are you labeling correctly?
- Can the disinfectant be used on ALL surfaces/items?
- Are you aware of safety with disinfectant use?
- Cleaning and disinfecting solutions should not be mixed
- Must follow manufacturer's recommendations for equipment



Management of Environment

- Increase the frequency of routine environmental cleaning including bathrooms and around the resident's living space
- Particular attention should be given to cleaning objects that are frequently touched such as:
 - Faucets,
 - Door handles,
 - Light switches and
 - Bed side tables
 - Toilets
 - Sink areas



Assignments

- Dedicated staff
- Housekeeping vs. Nursing
- Assignment List
 - Equipment
 - Resident Rooms
 - High touch areas
 - Common Use Areas
 - Break Rooms



6 Steps for Safe & Effective Disinfectant Use

6 Steps for Safe & Effective Disinfectant Use



Step 1: Check that your product is EPA-approved
Find the EPA registration number on the product. Then, check to see if it is on EPA's list of approved disinfectants at: [epa.gov/listn](https://www.epa.gov/listn)



Step 2: Read the directions
Follow the product's directions. Check "use sites" and "surface types" to see where you can use the product. Read the "precautionary statements."

Step 3: Pre-clean the surface
Make sure to wash the surface with soap and water if the directions mention pre-cleaning or if the surface is visibly dirty.



Step 4: Follow the contact time
You can find the contact time in the directions. The surface should remain wet the whole time to ensure the product is effective.

Step 5: Wear gloves and wash your hands
For disposable gloves, discard them after each cleaning. For reusable gloves, dedicate a pair to disinfecting COVID-19. Wash your hands after removing the gloves.



Step 6: Lock it up
Keep lids tightly closed and store out of reach of children.

[coronavirus.gov](https://www.coronavirus.gov)

<https://www.epa.gov/sites/production/files/2020-04/documents/disinfectants-onepager.pdf>

Resident Room Surfaces

Strategies for Cleaning AND Disinfection:

- Start with the surfaces that are the cleanest
- Top to bottom approach
- Cleaning cloths should only be used in one room
- Never put soiled cleaning cloth back into a cleaning bucket
- Mop heads should be changed after each room
- Use caution to prevent gown from touching resident care items



CDC Recommendations

- Use dedicated medical equipment whenever possible
 - If not possible, clean AND disinfect prior to use with another resident
- Always follow facility policies and procedures for cleaning and disinfection
- Remember to first clean and then disinfect with EPA List N disinfectant
- Laundry, Food Service Utensils and Medical Waste can all be managed using routine procedures

<https://www.cdc.gov/coronavirus/2019-ncov/hcp/infection-control-recommendations.html>

Other Cleaning and Disinfection

- Dining/Common areas
 - Don't Forget...
 - Under table
 - Chairs
- Activity Equipment and Supplies
- Nursing Stations and Office
 - Keyboards
 - Pens, common items



Audit Tool

Infection Prevention and Control Manual Interim Cleaning and Disinfection Audit COVID-19 Pandemic

Cleaning and Disinfection Audit - COVID-19 Audit

PROCEDURE	YES	NO	COMMENTS
Resident Room - Confirmed COVID-19			
Preparation			
1. Prepares disinfectant to be used in cleaning and disinfecting resident room following product label a. EPA-List N			
2. Performs Hand Hygiene			
Donning of Personal Protective Equipment			
1. All recommended PPE is gathered prior to entering the room (Gown, gloves, eye protection, N95 or mask)			
2. Gown is donned first and tied at waist and neck			
3. Dons mask or N95 respirator			
4. Secures nosepiece with both hands			
5. Secures elastic bands or tie securely			
6. Mask or N95 fits snug to face and below chin			
7. Goggles or face shield is donned			
8. Gloves extend to cover wrist of isolation gown			
Resident Room			
1. Housekeeping cart does not enter the resident room			
2. Unattended chemicals should be securely locked			
3. Performs cleaning and disinfection of high touch areas: a. Doorknobs b. Handrails c. Bath rails d. Skin handles e. Call buttons f. Call light cords g. Soap dispensers h. Telephones i. Remote controls j. Wheelchairs k. Walkers l. Bedside tables m. Light switches			

This resource was developed utilizing information from CDC and CMS.

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Infection Prevention and Control Manual Interim Cleaning and Disinfection Audit COVID-19 Pandemic

n. Other surfaces near resident bed/chair			
4. Cleans and disinfect bathroom			
5. Mops floor			
6. Performs cleaning and disinfection from cleanest surfaces to dirtiest surfaces a. If surfaces are visibly soiled, clean first then disinfect			
7. Cleans areas that are not re-contaminated			
8. Cleaning cloths and solutions are used for only one room			
9. Cleaning cloths do not soak in dirty cleaning solution			
10. Mop head is laundered after each use			
Removal of Personal Protective Equipment			
Gloves			
1. Grasps outside of glove with opposite gloved hand and peels off			
2. Holds removed glove in gloved hand			
3. Slides fingers of ungloved hand under remaining glove at wrist			
4. Peels glove off over first glove			
5. Discards gloves in waste container			
Gown			
1. Unfastens ties			
2. Pulls away from neck and shoulders, touching inside of gown only			
3. Turns gown inside out			
4. Folds or rolls into a bundle and discards a. Disposable gowns: Discards in waste receptacle b. Reusable/cloth gowns: c. Places in soiled laundry receptacle			
Exit Room after Glove/Gown Removal			
Perform Hand Hygiene			
Goggles/Face Shield			
1. Removes goggles/face shield using care to pull away from face not to touch front of shield or goggles			
Mask or Respirator			
1. Grasps bottom, then top ties or elastics and removes			
2. Does not touch the front of the mask or respirator (contaminated)			
3. Disposes of properly			

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5. The employee used the proper technique and order to don and removed PPE			
6. PPE was removed at doorway or anteroom			
7. Perform Hand Hygiene			
Medical Equipment			
1. Cleaning and Disinfection of medical equipment is performed following manufacturer's instructions and use of EPA List N Disinfectant			
Comments			

Employee _____ Date _____

Evaluator _____ Date _____

References and Resources:

- Centers for Disease Control and Prevention. Coronavirus Disease 2019 (COVID-19). Preparing for COVID-19 in Nursing Homes. June 25, 2020: <https://www.cdc.gov/coronavirus/2019-ncov/hcp/long-term-care.html>
- Centers for Disease Control and Prevention. Clinical Questions about COVID-19: Questions and Answers. August 4, 2020: <https://www.cdc.gov/coronavirus/2019-ncov/hcp/faq.html>
- Centers for Disease Control and Prevention. Interim Infection Prevention and Control recommendations for Healthcare Personnel During the Coronavirus Disease 2019 (COVID-19) Pandemic. July 15, 2020: https://www.cdc.gov/coronavirus/2019-ncov/hcp/infection-control-recommendations.html?CDC_AA_revised=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019-ncov%2Finfection-control%2Fcontrol-recommendations.html
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- Centers for Medicare and Medicaid Services. Interim Final Rule Updating Requirements for Notification of Confirmed and Suspected COVID-19 Cases Among Residents and Staff in Nursing Homes. QSO-20-29. May 2, 2020: <https://www.cms.gov/files/document/qso-20-29-nh.pdf>
- United States Environmental Protection Agency (EPA). Pesticide Registration List N: Disinfectants for Use Against SARS-CoV-2: <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>

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Summary and Tips for Compliance





References and Resources

- Centers for Disease Control and Prevention. Coronavirus (COVID-19): <https://www.cdc.gov/coronavirus/2019-ncov/index.html>
- Centers for Disease Control and Prevention. Using Personal Protective Equipment (PPE): <https://www.cdc.gov/coronavirus/2019-ncov/hcp/using-ppe.html>
- Centers for Disease Control and Prevention. Strategies to Optimize the Supply of PPE and Equipment: <https://www.cdc.gov/coronavirus/2019-ncov/hcp/ppe-strategy/index.html>
- Centers for Disease Control and Prevention: Cleaning: <https://www.cdc.gov/infectioncontrol/guidelines/disinfection/cleaning.html>
- Centers for Disease Control and Prevention: Guideline for Disinfection and Sterilization in Healthcare Facilities: <https://www.cdc.gov/infectioncontrol/guidelines/disinfection/introduction.html>
- Centers for Disease Control and Prevention: <https://www.cdc.gov/coronavirus/2019-ncov/hcp/nursing-home-long-term-care.html>

References and Resources

- Centers for Disease Control and Prevention. Interim Infection Prevention and Control Recommendations for Healthcare Personnel During the Coronavirus Disease 2019 (COVID-19) Pandemic. July 15, 2020: <https://www.cdc.gov/coronavirus/2019-ncov/hcp/infection-control-recommendations.html>
- United States Environmental Protection Agency. Selected EPA-Registered Disinfectants: <https://www.epa.gov/pesticide-registration/selected-epa-registered-disinfectants>

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