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Guidelines for Personal Hygiene and Drinking Water Facilities for Persons Living Homeless

Updated May 2021

Audience: This document provides interim guidance for public entities and homeless service providers on increasing access to water, sanitation, and hygiene facilities for persons living homeless. Guidance offered in this document provides information to support increased access to drinking water, toilets, and hand washing facilities to reduce the spread of infectious diseases, including COVID-19, Hepatitis A, and infectious diarrheal illnesses within unhoused communities and publicly accessible facilities.

Position: Public Health – Seattle & King County (PHSKC) is concerned about the spread of infectious diseases that include but are not limited to Hepatitis A (HAV) and COVID-19 within the unhoused population in Seattle. The <u>CDC guidance</u> to reduce the spread of COVID-19 and other communicable diseases includes frequent hand washing with soap and water. COVID-19 spreads from person-to-person through exposure to infectious respiratory fluids carrying SARS-CoV-2 (the virus that causes COVID-19), <u>primarily through respiratory droplets and aerosol particles</u> produced when an infected person coughs, sneezes, or talks. The <u>risk of SARS-CoV-2 transmission from surface contact is low</u> and generally can be mitigated through routine cleaning. HAV and other communicable diseases, specifically infectious diarrheal illnesses, are spread person-to-person through fecal-oral transmission.

To decrease communicable diseases that impact homeless populations, PHSKC advises cities and other public entities to improve access to facilities where individuals can wash their hands, use the toilet, shower, and access drinking water. Emphasis should be placed on geographic areas where people living homeless congregate outdoors, and locations with unsanctioned encampments.

Public entities should strive to meet convenience standards on the number of hygiene facilities per population. The City of Los Angeles cited a <a href="https://nearth-se

For hygiene facilities to be effective, they must be consistently maintained in adequate number to ensure sanitary conditions, including regular cleaning and disinfection, restocking, and general

maintenance. Facilities opened or deployed in areas with concentrated homeless populations where there are fewer hygiene options will require considerably more cleaning and maintenance. PHSKC recommends prioritizing these areas, both to serve the needs and health of individuals and to prevent the spread of disease in the community.

The <u>United Nations recognizes access to water and sanitation as basic human rights</u> (12/17/15 UN General Assembly Resolution). While this guidance is being provided during a pandemic response, access to toilets, handwashing, bathing and drinking water facilities is always important.

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CLEANING AND MAINTENANCE OF PERSONAL HYGIENE AND DRINKING WATER FACILITIES

This document serves as guidance for maintenance, cleaning, and disinfecting of personal hygiene facilities. Take proper steps for cleaning and disinfecting surfaces to remove germs that can make people sick. Surfaces that people touch a lot (door handles, railings, light switches, chairs, tables, faucets, sinks are considered high-touch surfaces) and bathroom surfaces should be cleaned and disinfected routinely. *Note: This guidance provides instructions for disinfecting high touch surfaces and hygiene facilities and should not be applied for food contact or food preparation surfaces.*

CHECKLIST FOR STOCKING PERSONAL HYGIENE FACILITIES

Facilities available to persons living homeless should provide opportunities to use the toilet, wash hands, bathe/shower, and access clean drinking water when available. Facilities should be consistently stocked with the following items:

Toileting and Handwashing Facilities

	Hot water (between 100°F and 120°F). with an automatic shut off is recommended for fixed facilities where available This may not be possible in temporary facilities and certain public facilities.
	Soap and hand sanitizer (70% alcohol-based) provided at each handwashing station.
	Recommend automatic or one-hand push dispenser to reduce cross-contamination.
	Paper hand drying towels and disposal bins that are emptied before becoming full (cleaning staff will need to monitor use of the facility).
	Toilet paper, with minimum stock necessary, to prevent theft.
Show	ering Facilities
	Hot water provided at temperatures between 100°F and 120°F.
	Body soap and shampoo at all bathing stations.
	Bag for clients to store personal belongings while bathing.
	Clean towels for clients.
	Provide clean socks and underwear if possible.
SUPPLI	es, Personal Protective Equipment (PPE), and Safety
Minin client	num PPE for all staff (including attendant staff who are primarily welcoming and directing s)
	Surgical mask (for COVID-19 mitigation)
	Gloves
	A disposable gown or coverall is recommended if coming into contact with client belongings.

Supplies to Stock for Cleaning and Disinfecting

	Gloves, masks, and goggles/safety glasses for protection of skin and eyes during cleaning,
	clothing that covers exposed skin (see note about personal protection below).
	Protective clothing for use when deep cleaning or cleaning areas contaminated by bodily fluids.
	Select clothing that can be thrown away or washed.
	Cleaning supplies (e.g., paper towels, garbage bags, scrubbing pads/cleaning brushes, squeegee)
	Fragrance free detergent (especially for drinking water fountains).
	Disinfectant products such as ready to use a.k.a. "RTU" in labeled spray bottles and/ or wipes.
	See Appendix A for a list of effective disinfectants.
	If diluting concentrated products: measuring cups, bucket, spray bottles to disperse disinfectant
	marker/tape for labeling bottles.
	Hand sanitizer with at least 70% alcohol content.
	Materials that need to be restocked in facilities (soap, paper towels, toilet paper, sanitary
	napkins, etc.).
	Eye-wash station. Note: State law requires that certain disinfectants be used in the presence of eye-wash stations (<u>link</u>)
	Cyc Wash stations (<u>inte</u>)
Safety	for Cleaning Staff
	Wear disposable facemask and gloves. Throw away the gloves when done.
	Wear protective clothing (apron) if possible.
	Store commonly used cleaning products in areas only accessible by staff to avoid excessive
	handling.
	Wash hands with soap and water after cleaning. Use an alcohol-based hand sanitizer if hand
	washing is not available.

Note: Respirators such as N95 masks are not recommended for routine cleaning and disinfection unless required by the product's label.

Safety Precautions for Using Cleaning Products

- Always follow product label instructions for information about recommended PPE (e.g., gloves, face masks, eye protection, etc.), how to properly use the chemical, contact time (amount of time chemical needs to remain on a surface before being wiped off), etc.
- **Protect yourself** before handling any chemicals. Chemicals can be very damaging to skin. Always wear gloves. Try to select fragrance free and less toxic products. *Note: Fragrance free is recommended for all products to decrease exposure to skin and respiratory irritants.*
- Open windows and doors to ensure outdoor air is flowing through your facility or site. Do not clean any rooms with closed doors. This will help maximize air circulation and reduce health risks.
- Use single-use paper towels when cleaning with spray-bottle chemicals. Wiping cloths can harbor germs if they are not disinfected in between use on multiple surfaces. Wiping cloths are appropriate when solutions are prepared in a bucket, allowing them to be fully submerged in the solution and disinfected throughout the cleaning process.

STEPS FOR CLEANING AND DISINFECTION

Cleaning uses soap or detergent to **remove dirt and debris** from surfaces. Sanitizers and disinfectants are less effective on dirty surfaces, so pre-clean a surface before disinfecting. This can be done with pre-mixed cleaning solution or disinfectant wipes. If using wipes, use a <u>wipe-discard-wipe technique</u>. Ensure they are disinfectant strength (read label) and use separate wipes for each step.

Disinfection uses a chemical to **kill germs** on surfaces. Disinfectants work best after a surface has been cleaned of all dirt and debris, and usually require a longer surface contact period (meaning the surface stays wet with the disinfectant between 1 - 10 minutes, depending on the manufacturer's instructions) to work.

Ensure you are using a product listed on EPA's List N of approved products for COVID-19.

Routine cleaning provides cleaning and disinfecting of high touch surfaces, to maintain a facility's cleanliness throughout the day. Routine cleaning should be done at least once a day to reduce the spread of germs and ensure that facilities are well stocked with soap and other supplies.

- Disinfect high touch surfaces.
 - o Focus on sink handles, knobs, doors, toilets, sink faucets, urinals, light switches, etc.)
 - o Dispensers (soap, hand sanitizer, paper towel, sanitary napkin).
- Remove debris from floor.
- Restock supplies such as soap, paper towels, toilet paper.
- Wipe down the entire toilet and frame to remove soil and fluids.

Deep Cleaning provides a thorough cleaning and disinfection of the entire facility and includes restocking cleaning and facility supplies. Deep cleaning and disinfecting should be done using both cleaning and disinfecting procedures outlined below. The frequency of deep cleaning will depend on the use of the facility and may need to be done daily or to clean bodily fluids such as blood, vomit, and feces.

- Prepare PPE.
- Allow for additional ventilation and airflow by opening doors and windows.
- Cleaning and disinfecting protocol outlined below for all surfaces (hot spots, sinks, toilets, shower, doors, floors).
- Check facility and perform repairs that are required (e.g. broken fixtures).

How to clean up vomit and diarrhea. Take extra precautions for cleaning vomit and diarrhea. Open windows or use a fan for ventilation. Fan should face an open window or door. Use personal protective equipment (gloves, face mask, eye protection, protective clothing). Clean the area to remove the vomit or diarrhea. Disinfect with a 5,000 ppm solution of bleach and water and allow it to sit on the surface for 1-2 minutes before wiping with a paper towel or air drying. Dispose of all soiled items in a garbage bag and remove it from your facility right away.

For more information, see the factsheet: How to Clean up Vomit, Diarrhea and Blood

HOW TO PREPARE AND SELECT CLEANING PRODUCTS AND DISINFECTANTS

Safe Use of Bleach

Bleach is a commonly utilized disinfectant and instructions for its use are included below. If using bleach, a 5,000 ppm solution is needed with a one minute wet time to ensure inactivation of the Hepatitis A virus (see dilution instructions below).

Bleach is a **respiratory irritant** and can be harmful to health (more information here).

- Use only in well-ventilated areas.
- Do not mix with other cleaners (e.g., vinegar or ammonia) because dangerous gases can form.
- Avoid spray bottle application; "pour" or "pump" bottles are preferable and do not produce aerosols.
- Ensure an onsite eye-washing station is available when using high concentration bleach (<u>link</u> to requirement).

How to Mix a Bleach Solution

- Identify the bleach/sodium hypochlorite % on the label and prepare your sanitizing or disinfecting solution based on the surface or area you are cleaning.
- Use cool water for mixing.
- Mix fresh solutions for sanitizing and disinfecting. If using a bottle, mix daily, and if using a bucket with rags, make a new batch every 2-4 hours, or when the water is cloudy.
- Always add the bleach to the water.
- Do not mix liquid bleach with other cleaning products it can create hazardous fumes.
- Use adequate PPE.
- Mix the dilution based on your needs. <u>Online guide for the right dilution for the job (Sanitize and Disinfect)</u>.

Bleach Alternatives - Other disinfectants are available that are effective against COVID-19 and Hepatitis A. If you have a concern about respiratory irritants and are looking for other products to choose from, see Appendix A: *EPA Registered Disinfectants effective for SARS-CoV-2 and Hepatitis A during COVID-19*. If choosing between different cleaners and disinfectants, the following section may be helpful.

Cleaners - Over the counter cleaners are readily available. Cleaners that are safer for the environment and human health are encouraged if possible (e.g., look for Safer Choice, Green Seal, Ecologo, and Design for the Environment logos on product labels).









Disinfectants - Disinfectants that are effective for Hepatitis A should be chosen for use. Product labels should state that they are "effective against Hepatitis A". Alternatively, PHSKC has compiled a list of disinfectants known to be effective for both COVID-19 and Hepatitis A (see Appendix A). Follow instructions for use on the product label. Some disinfectants effective for both COVID-19 and Hepatitis A may also have the logos listed above.

TABLE: TIERED CONSIDERATIONS FOR MAINTENANCE AND CLEANING OF HYGIENE AND DRINKING WATER FACILITIES

Tier	Facility	Cleaning Schedule	Considerations		
Tier 1 High Labor and Maintenance Commitment	Shower Facilities	Thorough deep clean daily and/or when visibly contaminated by bodily fluids. Routine cleaning and disinfection between each use. Note: Rinse well before next client to remove residual cleaning product. Provide garbage collection, laundry service for towels (if cloth towels are used) and ensure maintenance issues are addressed quickly.	Staffing and Client Services Onsite staffing to welcome and manage guests, provide tower hygiene supplies, ensure appropriate use, and restock supplies working with a non-profit to provide clothing. Mobile shower additional considerati on Monitoring of fresh water and wastewater tank capacity base type of unit. Daily monitoring of status of units operating systems (water, electrical, wastewater). Following cleaning, Squeegee final rinse water into drain rath using towel.		
Tier 2 Medium Labor Maintenance Commitment	Handwashing and Toileting Facilities	Thorough deep clean daily and/or when visibly contaminated by bodily fluids. Restocking and routine cleaning high touch surfaces with disinfectant solution at least one (1) time per day.	On-site staffing generally not required Locations with high use and/or density of handwashing and toilets may require more frequent monitoring and service schedule should be adjusted to meet the need for the site.		
Tier 3 Lower Labor and Maintenance Commitment	Facilities Open to General Public with limited use by people living homeless	Routine cleaning high touch surfaces with disinfectant solution daily or as needed and restocking based on the use of the facility. Deep cleaning weekly or as needed.			
Communent	Drinking water fountains in areas where they are the primary source of clean drinking water for people living homeless	Daily routine cleaning Scrub surfaces (including the mouthpiece) with a scent-free detergent and water. Rinse with clean water. Disinfect the handle/push button and other high touch areas using disinfecting wipes. Avoid applying disinfectants to the mouthpiece.	Inspect fountains once a day to check the flow of water and cleanliness. Schedule repairs as needed. Increase cleaning and inspection frequency for fountains heavily soiled		

RESOURCES

Hygiene Facility Standards

- World Health Organization Essential environmental health standards in health care
- Los Angeles City: Health Commission Report 2018 Bathrooms
- San Francisco Public Works PitStop Program
- San Francisco Press Release Rollout of New Staffed Public Toilets and Hand-Washing Stations in High-Need Neighborhoods
- Los Angeles County Increased Mobile Handwashing in response to COVID-19
- Journal of Community Psychology: <u>Hand Hygiene during the COVID-19 pandemic among people</u> experiencing homelessness -Atlanta Georgia

General Guidance on Cleaning

- King County <u>Hygiene and Sanitation Guidance for Homeless Service Providers</u> Includes guidance, checklists, and posters for:
 - o Instructional sheet on how to set up a temporary handwashing station
 - o Guide to selecting a disinfectant and how to read a disinfectant label and special cleaning
- King County Routine cleaning, sanitizing and disinfecting guidelines for homeless shelters
- King County General Cleaning and Disinfection Guidelines
- US Army Public Health Command general guidance on disinfection with bleach
- California Department of Pesticide Regulation Hazards of Bleach
- Washington DOSH Directive on <u>Emergency Washing Facilities</u>

COVID-19 Specific Information

- King County novel coronavirus information
- CDC Cleaning and Disinfecting Your Facility
- CDC Guidance for Administrators in Parks and Recreational Facilities
- OSHA COVID-19 Infection Control and Prevention

Hepatitis A Specific Information

- PHSKC <u>Cleaning to kill Hepatitis A</u>
 (Available in Amharic, Somali, Spanish, Russian, Tigrinya, Vietnamese)
- PHSKC <u>Hepatitis A fact sheet</u>
- PHSKC <u>Hepatitis A information for people living homeless</u>
 (Available in Amharic, Arabic, Chinese, Korean, Russian, Somali, Spanish, Tigrinya, Vietnamese)
- California Department of Public Health <u>Hepatitis A Environmental Sanitation Resources</u>
- Water Quality and Health Council Cleaning for Hepatitis A

Safer Cleaning Information

- UWDEOHS <u>Safer Cleaning</u>, <u>Sanitizing and Disinfecting Strategies to Reduce and Prevent COVID-19</u>
 <u>Transmission</u>
- San Francisco Department of the Environment <u>Safer Products and Practices for Disinfecting and Sanitizing Surfaces</u>

APPENDIX A: EPA Registered Disinfectants effective for SARS-CoV-2 and Hepatitis A during COVID-19

(Note this list was compiled 04/06/2020 and new product may have been added since that time)

Purpose of this list: This document is intended to provide a list of EPA registered disinfectants that are effective for both the novel coronavirus COVID-19 (which is caused by the virus SARS-CoV-2), and Hepatitis A (HAV). This list will be useful for facilities that are required or recommended to disinfect for Hepatitis A and COVID-19 such as homeless service providers, emergency shelters, and public hygiene facilities (toilets, handwashing, bathing).

How this list was comprised: This list was compiled utilizing EPA's List N: Products with Emerging Viral Pathogens AND Human Coronavirus claims for use against COVID-19 (updated 04/02/2020), and each product was then individually checked for efficacy for Hepatitis A by staff within PHSKC. Efficacy for Hepatitis A was either indicated on List N, on the product label, or on the efficacy testing submitted by the company to EPA with the product registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). Once products identified effective for both viruses were compiled, the active ingredients were searched using Pharos, which integrates various hazard resources and provides access to publicly available GreenScreen chemical hazard assessments. The GreenScreen methodology evaluates substances based on a broad range of health and environmental endpoints and incorporates the use of hazard lists from a range of governmental and professional scientific bodies. Products on the disinfection list below are listed in order of increasing hazard, based on their active ingredients. It should be noted that hazard scores utilized for this list were ranked by GreenScreen criteria. Rankings reflect only inherent hazards of the active ingredients from available data from Pharos and are not a full risk assessment of the product or its components. More information about these tools can be found here (Pharos and GreenScreen). In addition to the GSLT scores for each chemical, dwell time needed for the product to kill Hepatitis A was considered, as well as the safety of the active ingredients based on guidance from the University of Washington Department of Environment and Occupational Health, Design for the Environment, and the San Francisco Department of the Environment. Products were grouped into three categories (green, yellow, orange) of increasing hazard or increasing unknowns/data gaps of the active ingredients based on the information described above (least to most hazardous/unknown) and alphabetized per category.

A note on choosing safer products: People working in janitorial professions are exposed to cleaners more frequently. Many of these can cause respiratory irritation or lead to asthma. When possible, choose a product that has been certified to be safer for human health and the environment (e.g., look for Safer Choice, Green Seal, Ecologo, and Design for the Environment logos on product labels).









If there is no logo on the product label, the following active ingredients are safer choices if choosing between multiple products that are effective for your disinfecting needs (in this case disinfecting for COVID-19 and Hepatitis A): ethanol, isopropanol (isopropyl alcohol), hydrogen peroxide, L-Lactic acid, or citric acid. In addition, the King County Hazardous Waste Management Program recommends that when a product does not have a logo that indicates it is safer, then looking at the warning labels can help prioritize which product to choose. Opt for products that do not contain "warning", "caution", "danger" or "poison" labeling. If that is not possible, choose products with "caution" or "warning" labels over those with "danger" or "poison" labeling. Finally, dwell time (also known as wet time) should be considered when choosing similar products. Shorter times reduce the potential for inhalation exposures.

Always follow the directions on the label for the correct mixing amounts and required personal protective equipment (PPE) to apply the product.

Products in the following table were grouped into three categories of increasing hazard based on their active ingredient(s) (least to most hazardous or most unknown) and alphabetized per category. Hazard categorization of active ingredients considered GreenScreen criteria, guidance on safety of common active ingredients, and dwell times (see below for more information).

LIST OF EPA REGISTERED DISINFECTANTS EFFECTIVE FOR HEPATITIS A AND COVID-19 (as of 04/06/2020)

Key:

Lower hazard Intermediate hazard Greater hazard/unknowns
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Commercially Available Product Name	Company/Distributor	EPA REG No.	Active Ingredient	Dwell Time (minutes)
PURELL Healthcare Surface Disinfectant	GOJO Industries, Inc.	84368-1-84150	Ethyl alcohol Isopropyl alcohol	1
Purell Multi Surface Disinfectant	GOJO Industries, Inc.	84368-1-84150	Ethyl alcohol Isopropyl alcohol	1
Purell Professional Surface Disinfectant	GOJO Industries, Inc.	84368-1-84150	Ethyl alcohol	1
Saginaw: - Clorox 4 In One Disinfecting Spray - Clorox Commercial Solutions® Clorox® 4-in-One Disinfectant & Sanitizer	Clorox Professional Products Company	67619-29	Ethanol	5
Urthpro	Urthtech LLC	84368-1	Ethanol	1
Avert Sporicidal Disinfectant Cleaner	Diversey Inc	70627-72	Sodium hypochlorite	1
CaviCide Bleach	Metrex	46781-15	Sodium hypochlorite	3
Clorox Clean Up Cleaner + Bleach	The Clorox Company	5813-21	Sodium hypochlorite Sodium hydroxide CAS 1310-73-2	30 seconds
Clorox Commercial Solutions® Toilet Bowl Cleaner with Bleach1	Clorox Professional Products Company	67619-16	Sodium hypochlorite	10
Clorox Commercial Solutions® Clorox® Clean-Up Disinfectant Cleaner with Bleach1	Clorox Professional Products Company	67619-17	Sodium hypochlorite	5
Clorox Healthcare® Bleach Germicidal Cleaner Spray	Clorox Professional Products Company	56392-7	Sodium hypochlorite	1
Clorox Healthcare® Fuzion® Cleaner Disinfectant	The Clorox Company	67619-30	Sodium hypochlorite	1
Clorox Toilet Bowl Cleaner Clinging Bleach Gel	The Clorox Company	5813-89	Sodium hypochlorite	10

Commercially Available Product Name	Company/Distributor	EPA REG No.	Active Ingredient	Dwell Time (minutes)
CloroxPro™ Clorox® Germicidal Bleach	Clorox Professional Products Company	67619-32	Sodium hypochlorite	5
CSP-3002-3	The Proctor & Gamble Company	3573-77	Sodium hypochlorite	5
Dispatch	Clorox Professional Products Company	56392-8	Sodium hypochlorite	1
Fight Bac RTU	Betco Corporation	1839-83-4170	2-(2- butoxyethoxy)ethanol	10
Husky 814 Tuberculocidal Disinfectant	Canberra Corporation	1839-83-8155	2-(2- Butoxyethoxy)ethanol	10
Klorkleen	Medentech LTD	71847-7	Sodium dichloro-S- triazinetrione	1
Klorsept (similar to Quick Defense tabs by State Industries)	Medentech LTD	71847-6	Sodium dichloro-S- triazinetrione	1
Pure Bright Germicidal Ultra Bleach	KIK International LLC	70271-13	Sodium hypochlorite	5
Pure Bright Germicidal Ultra Bleach	KIK International LLC	70271-13	Sodium hypochlorite	5
Quick Defense Disinfectant Tabs	State Industrial Products	71847-6-70799	Sodium Dichloro- sTriazininetrione	unclear 4-10 min, check with company for Hepatitis A
Rely+On Multipurpose Disinfectant Cleaner	Lanxess Corporation	39967-138	Potassium peroxymonosulfate; Sodium choride	10
Sani-Cloth Bleach Germicidal Disposable Wipe	Professional Disposables International Inc	9480-8	Sodium hypochlorite	1
Tecumseh B	KIK International LLC	70271-24	Sodium hypochlorite	5
Tulmult	Spartan Chemical Company Inc	5741-28	Sodium hypochlorite	0.5
Vital Oxide	Vital Solutions LLC	82972-1	Chlorine dioxide; Quaternary ammonium	5
Advantage	Wechem, Inc.	1839-83-34370	Mixed Quaternary Ammonium Chlorides	10

Commercially Available Product Name	Company/Distributor	EPA REG No.	Active Ingredient	Dwell Time (minutes)
Airx 75 Antibacterial Heavy Duty Cleaner & Odor Counteractant	The Bullen Companies	1839-83-44089	n-Alkyl dimethyl ammonium chlorides CAS 68391-01-5 n-Alkyl ethylbenzyl ammonium chlorides CAS 68956-79-6	10
BioCide 100	BioCide Labs	1839-83-86117	n-Alkyl dimethyl ammonium chlorides n-Alkyl ethylbenzyl ammonium chlorides	10
Citrus II Hospital Germicidal Deodorizing Cleaner	Beaumont Products, Inc.	1839-83-68939	Alkyl dimethyl benzyl ammonium chloride (C12-18) (CAS 68391- 01-5); Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (CAS 85409-23-0)	10
Clorox Commercial Solutions® Clorox® Disinfecting Spray	Clorox Professional Products Company	67619-21	Quaternary ammonium; Ethanol	10
Clorox Disinfecting Bathroom Cleaner	The Clorox Company	5813-40	Quaternary ammonium	10
Clorox Scentiva Bathroom Disinfectant Foamer	The Clorox Company	5813-40	Quaternary ammonium	10
Clubz Hospital Quat Cleaner	Superior Mfg.	1839-83-85984	n-Alkyl dimethyl ammonium chlorides n-Alkyl ethylbenzyl ammonium chlorides	10
Dutch®Plus Ready-To-Use Disinfectant Spray	Franklin Cleaning Technology	1839-83-1124	n-Alkyl dimethyl ammonium chlorides n-Alkyl ethylbenzyl ammonium chlorides	10
Fresh Breeze TB	MISCO PRODUCTS	1839-83-8325	n-Alkyl dimethyl ammonium chlorides n-Alkyl ethylbenzyl ammonium chlorides	10
Germi-Kleen Non-Acid Bowl & Bathroom Disinfectant	National Chemical Laboratories, Inc.	1839-83-2296	n-Alkyl dimethyl ammonium chlorides n-Alkyl ethylbenzyl ammonium chlorides	10

Commercially Available Product Name	Company/Distributor	EPA REG No.	Active Ingredient	Dwell Time (minutes)
LX-0307 RTU QUAT CLEANER DISINFECTANT	ABC COMPOUNDING CO., INC	1839-83-3862	n-Alkyl dimethyl ammonium chlorides n-Alkyl ethylbenzyl ammonium chlorides	10
Lysol Brand Lime & Rust Toilet Bowl Cleaner	Reckitt Benckiser LLC	777-81	Hydrochloric acid	10
QT-ТВ	Hillyard Industries, Inc./Central Sanitary Supply	1839-83-1658	n-Alkyl dimethyl ammonium chlorides n-Alkyl ethylbenzyl ammonium chlorides	10
Quatricide TB	Pharmacal Research Labs., Inc.	1839-83-8714	n-Alkyl dimethyl ammonium chlorides n-Alkyl ethylbenzyl ammonium chlorides	10
READY-SET-GO!	MOMAR, Inc.	1839-83-1553	n-Alkyl dimethyl ammonium chlorides n-Alkyl ethylbenzyl ammonium chlorides	10
Rex	Clorox Professional Products Company	67619-20	Quaternary ammonium	10
Sani Clean Disinfectant Detergent	Harvard Chemical, LLC.	1839-83-61524	n-Alkyl dimethyl ammonium chlorides n-Alkyl ethylbenzyl ammonium chlorides	10
Sanicare TBX	Buckeye International, Inc.	1839-83-559	n-Alkyl dimethyl ammonium chlorides n-Alkyl ethylbenzyl ammonium chlorides	10
Sanizide Plus Germicidal Solution	Safetec of America	1839-83-67161	n-Alkyl dimethyl ammonium chlorides n-Alkyl ethylbenzyl ammonium chlorides	10
Vanity GP	Reckitt Benckiser LLC	777-104	Hydrochloric acid	10

Disinfectant List Resources

Disinfectants

- EPA List N Disinfectants that meet EPA's criteria for use against SARS-CoV-2, the novel coronavirus that causes the disease COVID-19
- American Chemistry Council-Novel Coronavirus (COVID-19) Fighting Products
- <u>lowa State Center for Food Security and Public Health Disinfection Resources</u>

Safer Cleaning Information

- UWDEOHS <u>Safer Cleaning</u>, <u>Sanitizing and Disinfecting Strategies to Reduce and Prevent COVID-19 Transmission</u>
- San Francisco Department of the Environment <u>Safer Products and Practices for Disinfecting</u> and <u>Sanitizing Surfaces</u>

Hazard Ranking

- Pharos <u>Search Pharos</u>
- GreenScreen What is GreenScreen?