

COVID-19 Guidance Congregate Settings Version: August 26, 2020

Checklist for Cleaning and Disinfection in Congregate Settings

This checklist is one of several resources intended to support congregate settings to reduce the spread of COVID-19. It is to be used in conjunction with other relevant information from the Wellington-Dufferin-Guelph Public Health (WDGPH) and the Ministry of Health. Visit <u>wdgpublichealth.ca</u> for ongoing updates and links to additional resources. These are not legal documents.

While the primary mode of transmission of COVID-19 is through contact with an infected person or their respiratory droplets (i.e. cough, sneeze), the virus can also be indirectly transmitted through contaminated surfaces that are frequently touched (i.e. door knobs, light switches, handles) when a person touches the contaminated surface and then touches their eyes, nose or mouth. While studies are still underway to learn more about COVID-19 and how it is transmitted, some studies have shown that the virus can survive on surfaces for hours to days, posing a risk for indirect transmission.

Note: WDGPH does not recommend or endorse the use of any specific product. Please consult Health Canada's Drug Product Database online query regarding products licensed for use in Canada.

Product Effectiveness

Considerations	Details
How can you determine if a disinfectant is effective against COVID-19?	 Read the label to determine if the product has disinfectant claims. Locate the Drug Identification Number (DIN) on the label. A DIN is an 8-digit number given by Health Canada that confirms the disinfectant product is approved and safe for use in Canada. A product with only an EPA number is not acceptable. Search Health Canada's <u>Hard-surface disinfectants and hand sanitizers (COVID-19): List of disinfectants with evidence for use against COVID-19 by entering the DIN into the search box.</u> While most disinfectants will work against COVID-19, the disinfectants on this list are supported by evidence following drug review, demonstrating that they are likely to be effective and may be used against SARS CoV 2, the virus that causes COVID-19.

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Cleaning and Disinfection Best Practices

Considerations	Details
What are best practices for cleaning and disinfecting surfaces?	 Locate the product sheet and/or review the product label to understand how to safely and effectively use the product (i.e. expiry date, re-use claim, dilution). Ensure the cleaning and disinfection products are not expired. Determine if the product is one-step cleaner and disinfectant or whether it is only a disinfectant. The label will indicate if the product is a cleaner, disinfectant, or both. The product label should state if pre-cleaning is required, however heavily soiled areas should always be pre-cleaned before disinfecting. Follow the contact time (the time the product must stay wet on a surface) required to achieve disinfection. Consider the setting and surfaces the product is being used on when determining what disinfectant produce to use. It may not be feasible for the surface to remain wet for the required contact time when the contact time is prolonged. Spray bottles are not recommended when applying disinfectant products in a health care setting. Applying a disinfectant using an aerosol or trigger spray may cause eye injuries or exacerbate an individual's respiratory condition. If spray bottles are used, spray the product directly onto the cleaning cloth and then wipe the surface following the manufacturer's instructions for use. Do not apply the product directly onto the surface with a spray application. Only decant the product into an empty bottle. Once the decanted product is used up or discarded, clean and dry the bottle before re-filling. A dedicated cleaning sink (not a hand washing sink) must be used.

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 Each product has a specific shelf-life after being
diluted/decanted as indicated by the manufacturer.
The shelf-life cannot be properly tracked if the
bottles are topped up.
 Topping up bottles may over/under dilute the
product affecting its safety and/or efficacy.
When cleaning and disinfecting surfaces:
 Visible soil must be cleaned with soap and water
before applying the disinfectant.
 Always move from low-touch to high-touch
surfaces, cleaner areas to dirtier areas, and from
top to bottom to avoid cross contamination of
surfaces.
Do not double-dip cloths into the product as this can
contaminate the remaining solution.

Mixing Disinfectants from Concentrate

Considerations	Details
If a product is supplied in a	Never dilute a ready-to-use (RTU) product.
concentrated format, what is the	Never use a concentrated product without first diluting as
best practice for mixing?	per the manufacturer's instructions. Using a concentrated
	product at full strength can create an occupational health
	and safety concern and could damage the surface.
	□ If a concentrated disinfectant is purchased, there must be
	a method to consistently dilute the product on-site.
	 Develop a process for diluting the product (e.g.
	automated mixing devices, dispensers, measuring cup) to
	ensure consistency.
	Post instructions for staff on proper handling and dilution
	of the disinfectant products.
	Contact the manufacturer to determine the shelf life of the
	product once it has been mixed to determine how often to
	re-mix the product.
	 Once a product is dispensed from the original container,
	the bottle must be labelled (i.e. WHMIS label).
	Test strips are recommended to verify the product was
	mixed as per manufacturer's instructions.

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• Ensure test strips are not expired.

- Keep a log of test results when verifying the concentration of the product.
- Test strips are not intended to allow for prolonged product use beyond the shelf-life or expiry date indicated by the manufacturer. The product must be replaced as per the re-use claim, if visibly contaminated, or as required by the manufacturer.
- The manufacturer should provide direction on when and how often the verification of dilution should be performed. When this is not available, dilution should be verified each time the solution is dispensed.

Preparing a bleach and water disinfectant solution (using 5.25% bleach) for COVID-19

Source: <u>Reducing COVID-19 Transmission Through Cleaning</u> and Disinfecting Household Surfaces

- There are several products that are effective against COVID-19 including a bleach and water solution.
- Studies have demonstrated that a 500ppm and a 1000ppm bleach and water solution are effective against COVID-19.
- Some individuals may have sensitivities to bleach and some organizations do not permit the use of bleach within their organization.
- Higher concentrations of bleach and water are not recommended as this can lead to occupational health and safety concerns.
- If a bleach and water solution is used for disinfection, it must be mixed safely. When mixing, always add concentrated bleach to water; to avoid accidental exposure from splashes, never add water to concentrated bleach.



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 As bleach is only a disinfectant, all surfaces must first be cleaned with soap and water and rinsed prior to applying the bleach solution. The contact time (time the disinfectant must stay wet on the surface) for bleach and water to be effective against COVID-19 is 5 minutes. When considering other organisms, the contact time for bleach and water to be effective against norovirus is 10 minutes.
ntermediate level disinfection (1:100, approximately 00ppm) – for low touch surfaces
 1 tsp (5ml) of household bleach in 2 cups (500ml) water Recommended for use on low-touch environmental surfaces Surfaces should remain wet for at least 5 minutes to allow adequate contact time. Air dry after disinfecting.
ntermediate High-level disinfection (1:50, pproximately 1000ppm) – for high touch surfaces
 1 tsp (5ml) of household bleach in 1 cup (250ml) water 4 tsp (20ml) of household bleach in 1 L of water Recommended for use on high touch surfaces (surfaces that are touched frequently) and when there is visible bodily fluid contamination Surfaces should remain wet for at least 5 minutes to allow adequate contact time. Allow surfaces to air dry after disinfecting.



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Documentation

Considerations	Details
What documentation should be available on-site for staff to review?	 Develop an environmental cleaning policy and procedure for all staff to follow; provide instructions specific to the products used. Provide the safety data sheet (SDS) sheet for each product. Staff should confirm the personal protective equipment (PPE) required prior to using/mixing a product. (IMPORTANT: determine whether access to an eye wash station is required for products onsite). Check with the manufacturer/supplier and have documentation onsite to verify: Whether pre-cleaning is required Contact time PPE required If a rinse step is required The shelf life of the product (i.e. how long it can remain in solution once mixed) Whether the product is a one-step cleaner/disinfectant or if it is just a disinfectant and therefore cleaning is
	required prior to disinfection.

No Touch Disinfection Systems

Considerations	Details
Can a disinfectant fogging or no touch disinfection system be used instead of manual disinfection of surfaces?	 If a no touch disinfection system is used to disinfect surfaces: All surfaces must be manually cleaned to remove debris and organic matter prior to application of the disinfectant. The product must be used according to the manufacturer's instructions for use. Occupational health and safety concerns should be reviewed by each organization. Based on recent information from Public Health Ontario:

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 The safety and effectiveness of fogging for
disinfection for COVID-19 have not been
demonstrated.
 Potential worker exposure to disinfectants and
subsequent adverse health effects, and a lack of
research supporting this practice, are concerns that
should be considered.
Health Canada and Ontario's Provincial Infectious
Diseases Advisory Committee (PIDAC) also discourage
fogging for disinfection in health care settings.
The World Health Organization (WHO) does not
recommend spraying or fogging of disinfectants to
environmental surfaces in indoor spaces for COVID-19
disinfection. This is based on adverse health effects (e.g.,
eye, respiratory or skin irritation) from worker exposure to
disinfectants such as formaldehyde, chlorine based
agents or quaternary ammonium compounds; lack of
efficacy at removing contaminants outside of the direct
spray zone; and lack of effectiveness for removing
organic material and reaching shielded surfaces, (e.g.,
folded fabrics, surfaces with intricate designs).

Other Considerations

Considerations	Details
What are other considerations and where can I find more information?	 Always follow manufacturer's instructions on the product label for the intended use. If the product will be used on food contact surfaces, an extra rinse step with potable water after meeting the contact time may be required if the product is not food grade. Alternatively, a sanitizer can be used on food contact surfaces. A sanitizer reduces but does not necessarily eliminate the number of microorganisms (i.e. bacteria, viruses) on surfaces. Sanitizers are only to be used in food preparation areas.

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Make sure the cleaner and disinfectant are compatible
with the surface to be cleaned and disinfected.
Cloth surfaces and furnishings that are not fluid resistant
cannot be cleaned and disinfected.
□ Never mix bleach with ammonia or acid products as toxic
chlorine gas and other dangerous by-products can be
formed.
□ If a disinfectant product with extended efficacy claims (i.e.
30 days) is used, the use of this product does not replace
the need for routine cleaning and disinfection of
environmental surfaces. There is no ability for a user to
determine the ongoing efficacy of this product.
 Current recommendations for environmental cleaning
and disinfection for COVID-19 are for surfaces to be
regularly cleaned and disinfected (i.e., daily) and more
frequently (i.e., twice daily) for high touch surfaces
 For more information, review the PIDAC Best
Practices for Environmental Cleaning for
Prevention and Control of Infections in all Health
Care Settings.

Additional Resources

PIDAC Best Practices for Environmental Cleaning for Prevention and Control of Infections in All Health Care Settings, as current: <u>https://www.publichealthontario.ca/-/media/documents/B/2018/bp-environmental-cleaning.pdf</u>



References

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- National Collaborating Centre for Environmental Health. Reducing COVID-19 Transmission Through Cleaning and Disinfecting Household Surfaces. April 28, 2020. Available from: <u>https://ncceh.ca/documents/guide/reducing-covid-19-transmission-through-cleaning-and-disinfecting-household-surfaces</u>
- Public Health Ontario Webinar Question and Answer: Environmental Cleaning for Prevention and Control of COVID-19 in Long-term Care and Retirement Homes. July 23, 2020. Available from: <a href="https://file-us.clickdimensions.com/publichealthontariocaagulw/files/qa-webinar-env-cleaningltchs.pdf?1595446743232& cldee=ZGIhbmUuZHVya0B3ZGdwdWJsaWNoZWFsdGguY 2E%3d&recipientid=contact-b54f85b8444be41180d400155d027703-1ee651d1c93045ebbb0f256146a60236&esid=ae53a7c7-51cc-ea11-a61e-0050569e118f