

# Cleaning and Disinfection during the COVID-19 Pandemic: Addressing Disinfectant Supply Challenges

**Note:** This information was developed by the Disinfectant and ABHR Working Group, provides recommendations about cleaning and disinfection products to address supply challenges during the COVID-19 pandemic. Recommendations are based on existing resources and summarized in this context to support staff through anticipated changes. If you have any questions or comments contact IPC at [ipcsurvstdadmin@ahs.ca](mailto:ipcsurvstdadmin@ahs.ca)

## Best practice recommendations

### 1. Cleaning and disinfection resources to support supply challenges

- 1.1 Infection Prevention and Control (IPC) [Principles of Environmental Cleaning and Disinfection](#) and [Ready-to-Use Disinfectant Wipes](#).
- 1.2 Environmental Services (ES) [Cleaning Principles](#).
- 1.3 Department or unit specific standards or protocols that define roles and responsibilities for managing disinfectant supplies including ordering/re-ordering; dispensing (if necessary), e.g., diluting, packaging, labeling, monitoring; and storage; cleaning tasks/specific equipment.

### 2. Product/disinfectant substitutions

- 2.1 Notice of any substitutions are communicated by Contracting, Procurement and Supply Management (CPSM) via a Product Substitution Notice (PSN). The email is sent to a formal distribution list approved at the manager level, e.g., managers, supply coordinators, ordering clerks, etc.
  - CPSM site supervisors also get these notices and have current information on back-ordered items.
- 2.2 Unit staff print off the PSN, laminate it or put it into a plastic sleeve, and post it on the supply carts to notify staff of the substitute product and the original item it replaces.
  - The PSN includes key messages about why the usual product is on back-order and details appropriate usage of the substitute; thus is an important form of communication from CPSM to end-users.
- 2.3 AHS supplied disinfectants including substitutes have been evaluated and determined to be effective against COVID-19.
- 2.4 Follow manufacturer's instructions for use.
  - Note any hazard symbols or special handling instructions as mixing disinfectant products together can be hazardous.
  - Follow contact time on the label. Contact time means the time required for the specific disinfectant to remain wet on the surface in order to achieve disinfection. Contact times vary from product to product.
  - Confirm the product is:
    - Intended for the purpose it is being used, e.g., surface or non-critical device disinfectant.
    - Compatible with the manufacturer's instructions for the device or surface being cleaned and disinfected.
    - Compatible with any accessories used, e.g., cleaning cloths.
- 2.5 Review the product's [Safety Data Sheet](#) (SDS) prior to use. Keep the SDS in an accessible location, e.g., post where product is prepared or easily retrieved by a trained staff member.

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### 3. Selecting a disinfectant method

#### 3.1 Consider:

- ease of implementation;
- materials required:
  - Do not order and repurpose products via CPSM which are intended for other uses as this may cause unintended consequences, i.e. using biohazard bags or sharps containers may result in shortages.
  - During COVID-19 options for sourcing may include: Obtaining through CPSM, obtaining Ziploc® bags or closed containers from retail outlets, inquiring with Linen and Environmental Services if they have available items.

To order Ziploc® bags from CPSM:

Oracle #	Description	Supplier
369100	Bag Zip-Lock® Polyethylene Clear 2MIL 5INX7IN	Pharma Systems MG5X7

- Consider saving empty ready-to-use (RTU) disinfectant wipe containers as they may be cleaned and reused if refilled with a disinfectant with the same chemical composition, e.g., accelerated hydrogen peroxide wipes replaced with accelerated hydrogen peroxide liquid and dry wipes. Do not repurpose containers of non-related products, e.g., baby wipe containers for this purpose.
- Do not discard lids, flip-tops or screw caps as they may be needed for RTU disinfectant liquid. Follow IPC Recommendations for Handling and Replacing Flip Top Lids: <https://www.albertahealthservices.ca/assets/healthinfo/ipc/hi-ipc-handling-replacing-flip-top-hydro-perox-disf-liq-z0.pdf>.  
Note: Spray tops may be provided with liquid RTU disinfectant; however spraying disinfectant is not recommended due to risk of aerosolization and the associated need for PPE if spray is used.
- volumes of wipes used;
- handling to avoid cross contamination;
- staff knowledge and available training information. Refer to [Principles of Environmental Cleaning and Disinfection](#), section 3, page 3.
  - Staff with limited knowledge and training about cleaning and disinfection are provided disinfectants that are easy to use, e.g., RTU pre-moistened disinfectant wipes, RTU liquid disinfectants and cleaning cloths instead of disinfectant those requiring preparation prior to use.
- Availability of disinfectants and the task being performed.
  - Supply disruptions may affect whether RTU disinfectants are available and limit choice of disinfectant.
  - RTU pre-moistened disinfectant wipes and RTU liquid disinfectants are intended for use on environmental surfaces in the patient environment and non-critical medical devices.

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- Do not use baby wipes as a substitute for disinfectant wipes.
- If RTU disinfectants are not available, are not appropriate for the task or the manufacturer’s instructions are not available, consult with the CPSM site supervisor.

#### 4. Cleaning cloths

4.1 Confirm the wipe or cloth used is compatible with the disinfectant. Cotton-based cloths and some microfibre cloths may bind to the active ingredient of the cleaning or disinfection product and the cloth retains the chemical causing inadequate exposure of the surface to the product, e.g., quaternary ammonium compound (QUAT) and “QUAT binding.”

Note: the wipes provided by CPSM with RTU liquid disinfectant as product substitutions have been reviewed and confirmed to be compatible with the disinfectant.

4.2 If the decision is made to cut disposable wipes into sizes which better accommodate the volume of disinfectant and contact time required for a piece of equipment ensure it is done with clean:

- hands;
- scissors;
- surface;
- storage as per [Storage of Clean and Sterile Supplies in Clinical Areas](#). Ideally cut what is needed for the day.

4.3 Proceed from:

- clean areas to dirty areas;
- low frequency touch to high frequency touch surfaces;
- higher surfaces to lower surfaces.

Refer to [Principles of Environmental Cleaning and Disinfection](#), Section 4.3 for further details.

4.4 Only use a clean wipe or cloth to enter the cleaning or disinfectant solution. Do not dip a used cloth into the cleaning or disinfectant solution (double dipping).

4.5 Use and reuse of wipes/cloths

4.5.1 Change wipes or cloths when:

- visibly soiled;
- no longer wet enough to keep surfaces wet for contact time;
- exiting a patient room under additional precautions.

4.5.2 Discard used disposable wipes/cloths into the garbage.

4.5.3 Place reusable cloths into a designated laundry bag for laundering.

#### 5. Diluting disinfectants

Refer to [Principles of Environmental Cleaning and Disinfection](#), 4.3, e, page 5

5.1 Follow manufacturer’s instructions for use. When diluting disinfectants check:

- Solution concentration with recommended test strips according to manufacturer’s instructions, e.g., at least daily.
- Stability once diluted. Expiry/discard date is based on this information.

5.2 Dispensing options for disinfectants requiring preparation. Refer to Appendix A for further details including product graphics and description.

5.2.1 Buckets:

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- Dilute disinfectant for immediate use, as applicable.
- Keep solution clean by never dipping soiled cloths back into the disinfectant solution, i.e., no double-dipping.
- At the end of the day, wash bucket in soap and water and allow to dry.

5.2.2 Clean, dry, appropriately sized, labeled containers:

- Ensure the container is labeled and dated for use by a specific date and time in 24 hour format according to stability of diluted product. For example, prepared May 14, 2020 and expires on May 15, 2020. Note: this information may be added to the SDS label. Refer to page 10 (Oxivir® Tb) and 11 (PCS) for sample labels.
- Labelling the container is required for safe use of disinfectants.

5.3 Discard solution when it reaches its expiry date.

5.4 Although not routinely recommended by IPC, during the COVID-19 pandemic decanting and refilling empty containers, e.g., buckets, RTU 1Litre liquid bottles, may be required.

5.5 Do not mix disinfectant types, i.e. AHP, QUAT, Bleach, this includes not reusing containers for different disinfectant types.

5.6 Consider storing similar looking products separately and not side by side, e.g., Oxivir® Tb AHP and PCS 1000 containers look similar but are different chemicals.

5.7 Refer to sample process below for dispensing disinfectant into secondary containers:

**Sample process for dispensing disinfectant into secondary containers**

1. Wash the empty container in warm soapy water, rinse in clean water and tip upside down to dry.
2. Once dry, close the lid and store for re-use in a clean location dedicated for this purpose.
3. Keep the container clean during the process of refilling it, e.g., perform hand hygiene; don gloves if recommended on the product label.
4. Label the container with the product name, WHIMS, date of opening or preparation; date of expiry/discard in 24 hour format, and identification/initial of the person decanting the product. Refer to page 10 and 11 for sample labels.
5. Take the container into an area for immediate use or store it in a designated location, e.g., in soiled utility area or in housekeeping room. Use prepared product before additional product is prepared.
6. Verify the label of any secondary container, e.g., contents, discard date and time in 24 hour format, before use. Do not use product that is past its expiry/discard date. Refer to sample labels on page 10 and 11.
7. Keep containers clean by never dipping soiled cloths back into the disinfectant solution.

**6. Use prepared point-of-use solution/RTU disinfectant with a cloth**

RTU products are not to be diluted or combined with other disinfectant products. Dispensing options for RTU:

- 6.1 Dispense disinfectant from the container onto the surface and use a cloth to wet the surface for the required contact time.

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- 6.2 Dispense liquid from the container into a bucket and place cloth in the bucket to saturate with disinfectant product. Squeeze out excess moisture. Never dip soiled cloths back into the disinfectant solution.
- 6.3 Dispense disinfectant from the container onto the cloth to wet the surface for the required contact time.
- 6.4 Dispense diluted disinfectant, i.e., diluted and prepared following manufacturer’s instructions for use/product label, or RTU liquid disinfectant, into a labelled plastic bag or other closed container, e.g., bucket with tight fitting lid with cleaning cloths or wipes. Refer to sample bag or container process for moistening cloths or wipes with disinfectant below:

**Sample Bag or Container or Bucket Process for Moistening Cloths or Wipes (adapted from Covenant Health)**

Supplies required: liquid disinfectant, re-sealable disposable plastic bag, e.g., Ziploc™, or empty clean disinfectant wipe container or bucket with lid, cleaning cloths or wipes and measuring cup.

**Steps**

- 1. Don personal protective equipment (PPE) as required by label.
- 2. Put disposable wipes provided in the bag, container or bucket.
- 3. Pour pre-determined amount (enough to wet cloths) of the disinfectant into a measuring cup and then into the bag, container or bucket.
- 4. If using bag, massage contents to moisten cloths.
- 5. Seal/close the bag, container or bucket.
- 6. Use a permanent Sharpie® marker to label the bag, container or bucket with the current date and expiry time in 24 hour format.
- 7. Use within time specified on product label, e.g., liquid bleach products within 24 hours. Accelerated hydrogen peroxide products are stable when decanted. Follow expiry on liquid disinfectant label.
- 8. Apply the WHMIS (Workplace Hazardous Materials Information System) label to the bag, container or bucket. Refer to page 10 and 11 for sample labels.
- 9. Store closed bag, container or bucket in a dedicated location, e.g., bin, for staff to access.
- 10. Doff PPE. Perform hand hygiene.
- 11. Clean and store equipment.

**7. Disinfectant/product shortages**

- 7.1 Confirm all ordering/re-ordering is completed directly through CPSM. Direct purchase orders will be cancelled during the pandemic and will not be filled.

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7.2 Contact your site CPSM site supervisor regarding supply shortages and ordering information. Ask site manager for contact information.

7.3 Email or call your Zone Emergency Operations Centre (ZEOC) if you have questions or concerns about disinfectant supplies. All contact information is on the front page of the [COVID-19](#) Insite webpage

- ECC: 1-877-228-3031 and 403-955-9873
- ZEOC North: 780-830-3538 and [PCH.ZEOCNorth@ahs.ca](mailto:PCH.ZEOCNorth@ahs.ca)
- ZEOC Edmonton: 780-408-6666 and [ZEOC.Edmonton@ahs.ca](mailto:ZEOC.Edmonton@ahs.ca)
- ZEOC Central: 403-406-5530 and [ZEOC.Central@ahs.ca](mailto:ZEOC.Central@ahs.ca)
- ZEOC Calgary: 403-943-2203 and [ZEOC.Calgary@ahs.ca](mailto:ZEOC.Calgary@ahs.ca)
- ZEOC South: [ZEOC.South@ahs.ca](mailto:ZEOC.South@ahs.ca)

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**Appendix A: How to use Oxivir® Ready-to-Use Liquid:** Adapted from Rockyview General Hospital (RGH) process developed - July 2020

The Oxivir® currently provided is accelerated hydrogen peroxide, similar to ACCEL.

Below are two methods that can be used for the ready-to-use liquid disinfectant with separately supplied dry wipes.

**1. Pour onto Wipe Method - Pour the disinfectant onto the wipe just prior to use.**




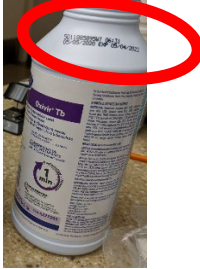

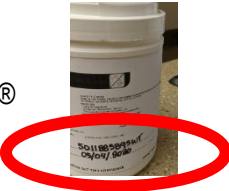
EQUIPMENT	PREPARATION	COMMENTS
<p>1 PACKAGE OF DRY WIPES</p>  <p>OR</p>	<p>IF USING WYPALL WIPES MAKE A KLEENEX STYLE SLIT IN THE TOP</p> 	<p>TORK OR WYPALL DRY WIPES CURRENTLY AVAILABLE</p> <p>OTHER WIPES NOT LISTED MAY BECOME AVAILABLE</p> <p>USE AHS PROVIDED WIPES</p>
<p>1 BOTTLE OF READY-TO-USE OXIVIR®</p> 	<p>ENSURE BOTTLE HAS A FLIP OR SQUIRT TOP</p> 	<p>MOST CASES OF 6 BOTTLES COME WITH ONE FLIP OR SQUIRT TOP AND 5 SCREW TOPS</p>  <p>FLIP OR SQUIRT TOPS ALLOW FOR MORE CONTROL WHEN WETTING THE WIPE</p>
<p><b>INSTRUCTIONS:</b></p> <ul style="list-style-type: none"> <li>PLACE A PACKAGE OF WIPES AND A BOTTLE OF READY-TO-USE OXIVIR® IN LOCATIONS WHERE EQUIPMENT/SURFACE CLEANING IS REQUIRED</li> <li>AT TIME OF USE END USER POURS DISINFECTANT ONTO WIPE ENSURING WIPE IS SUFFICIENTLY SOAKED TO ENSURE CONTACT TIME OF THE CHEMICAL (OXIVIR® 1 MIN REQUIRES A 1 MINUTE CONTACT TIME OF THE CHEMICAL TO THE EQUIPMENT TO ENSURE DISINFECTION)</li> </ul>		
<p>REUSE TOPS AS NEEDED PLACE EXTRA TOPS/USED EMPTY BOTTLES IN THE DESIGNATED COLLECTION AREA</p>		

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**2. Soak and Pull Method – Put the wipes into container, soak with disinfectant prior to use.**

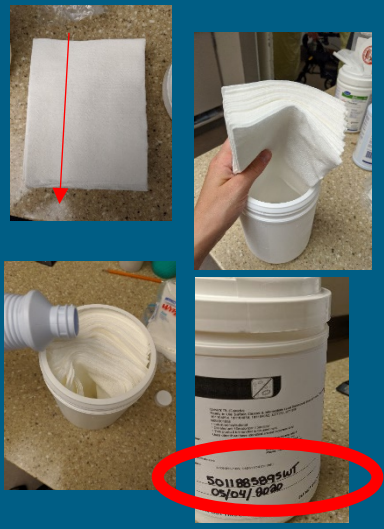
EQUIPMENT	PREPARATION	COMMENTS
<p>1 EMPTY ACCEL OR OXIVIR® WIPES CONTAINER WITH LID</p>  <p>OR</p>	<p>DUMP AND RINSE OUT CONTAINER PRIOR TO REUSING</p>	<p>BOTH ARE ACCELERATED HYDROGEN PEROXIDE SO ARE COMPATIBLE WITH THE OXIVIR® LIQUID</p>
<p>1 PACKAGE OF DRY WIPES</p>  <p>OR</p>		<p>TORK OR WYPALL DRY WIPES CURRENTLY AVAILABLE</p> <p>OTHER WIPES NOT LISTED MAY BECOME AVAILABLE</p> <p>USE AHS PROVIDED WIPES</p>
<p>1 BOTTLE OF READY-TO-USE OXIVIR®</p> 	<p>NOTE LOT# AND EXPIRY DATE</p> 	<p>ACCELERATED HYDROGEN PEROXIDE WITH 1 MINUTE CONTACT TIME</p>
<p>1 OXIVIR® LABEL</p> 	<p>WRITE LOT NUMBER AND EXPIRY DATE FROM OXIVIR® BOTTLE ON LABEL</p> 	<p>ACCURATE WHMIS INFORMATION, LOT # AND EXPIRY DATE ARE REQUIRED</p>

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**INSTRUCTIONS:**



- MARK THE LOT NUMBER AND EXPIRY DATE FROM THE BOTTLE OF OXIVIR® ONTO A LABEL
- PLACE THE LABEL (PROVIDED ON PAGE 10) ON A CONTAINER COVERING THE EXISTING LABEL.
- PLACE WIPES IN THE CONTAINER LENGTHWISE (APPROXIMATELY ½ PACKAGE WYPALL OR 1/3 PACKAGE TORK)
- POUR APPROXIMATELY 1/3 - ½ OF THE CONTENTS OF THE OXIVIR® BOTTLE OVER THE WIPES INTO THE CONTAINER. THE WIPES MUST BE SUFFICIENTLY SOAKED TO ENSURE CONTACT TIME OF THE CHEMICAL (OXIVIR® 1 MIN REQUIRES A 1 MINUTE CONTACT TIME OF THE CHEMICAL TO THE EQUIPMENT TO ENSURE DISINFECTION)
- CLOSE LID AND PLACE CONTAINER IN LOCATION WHERE EQUIPMENT/SURFACE CLEANING REQUIRED

REUSE CONTAINERS/TOPS AS NEEDED. PLACE EXTRA TOPS/CONTAINERS/USED EMPTY BOTTLES IN THE DESIGNATED AREA FOR COLLECTION.

**Note:**

A sample Oxivir® Tb label provided on page 10 may be used label to label Oxivir® Ready-to-Use Liquid prepared as per the process in Appendix A.

A sample label is provided on page 11 for PCS 1000 Oxidizing Disinfectant/ Disinfectant Cleaner Concentrate that may be used if preparing the PCS 1000 disinfectant.

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**Product name:** Oxivir® Tb (Canada)  
Ready to Use Surface Cleaner & Intermediate Level Disinfectant, General Virucide, Tuberculocide  
101104054, 101104056, 101104052, 4277293, 5871690  
**Product Code:**  
**SDS #:** MS0301086  
**Recommended use:**  
• Industrial/Institutional  
• Disinfectant / Deodorizer / Sanitizer  
• This product is intended to be used neat.  
**Uses advised against:**  
Uses other than those identified are not recommended

**Manufacturer, importer, supplier:**  
US Headquarters  
Diversey, Inc.  
8310 16th St.  
Sturtevant, Wisconsin 53177-1964  
Phone: 1-888-352-2249  
MSDS Internet Address: www.diversey.com

Canadian Headquarters  
Diversey Canada, Inc.  
6150 Kennedy Road Unit 3  
Mississauga, Ontario L5T 2J4  
Phone: 1-800-668-7171

**Emergency telephone number:** 1-800-851-7145; 1-651-917-6133 (Int'l)



FIRST AID MEASURES

**Undiluted Product:**

**Eyes:** Rinse with plenty of water. If irritation occurs and persists, get medical attention.  
**Skin:** No specific first aid measures are required.  
**Inhalation:** No specific first aid measures are required.  
**Ingestion:** Rinse mouth with water.

**Most Important Symptoms/Effects:** No information available.  
**Immediate medical attention and special treatment needed:** Not applicable.  
**Aggravated Medical Conditions:** None known.

**Personal Protective Equipment**

**Eye protection:** No personal protective equipment required under normal use conditions.  
**Hand protection:** No personal protective equipment required under normal use conditions.  
**Skin and body protection:** No personal protective equipment required under normal use conditions.  
**Respiratory protection:** No personal protective equipment required under normal use conditions.  
**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

Lot Number: \_\_\_\_\_  
Expiry Date: \_\_\_\_\_

**DO NOT THROW OUT THIS CONTAINER THIS CONTAINER**      **DO NOT THROW OUT THIS CONTAINER**

**Classified Ingredients**

Ingredient(s)
Benzyl alcohol
Hydrogen peroxide
Dodecylbenzene sulfonic acid

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**Respiratory protection:** No personal protective equipment required under normal use conditions.  
**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

Lot Number: \_\_\_\_\_  
Expiry Date: \_\_\_\_\_

**DO NOT THROW OUT THIS CONTAINER THIS CONTAINER**      **DO NOT THROW OUT THIS CONTAINER**

**Classified Ingredients**

Ingredient(s)
Benzyl alcohol
Hydrogen peroxide
Dodecylbenzene sulfonic acid

