



Surface Cleaning for Potential Virus Contamination Safe Work Procedures

Client	Ledcor Construction Ltd.	Date	2020-03-17
Location	Various Construction Sites throughout Canada		

Scope of Work

Precautionary thorough cleaning (of heavily soiled surfaces) and/or followed by disinfection of surfaces.

- Cleaning: removes visible dirt and contamination from surfaces using mechanical means.
- Disinfection: kills germs on surfaces or objects.

NOTE: in the event a confirmed case of COVID-19 was present on site, a specialized biohazard remediation, abatement company is to be contacted for professional disinfection.

Site Tasks and Cleaning Products

Routine daily cleaning of hard non-porous surfaces throughout construction sites including in site office trailers, lunchrooms, stair railings and scaffold stair railings, portable toilets, common tools, elevator/hoist and equipment controls, door handles and door surfaces around handles, light switches, printers, phones, keyboards, mouse, and other shared office equipment.

These Safe Work Procedures have been specifically developed for the use of Spray Nine® disinfectant manufactured by Permatex and Clorox Commercial Solutions® Clorox® Disinfecting Bleach.

Specific Notes about COVID-19

- These Safe Work Procedures specify requirements for the removal of viruses such as those that cause COVID-19. The length of time that SARS-COV-2 (the cause of COVID-19) survives on inanimate surfaces will vary depending on factors such as the amount of contaminated body fluid such as respiratory droplets present, surface material type (i.e. plastic, stainless steel, copper, and cardboard) and environmental temperature and humidity. In general, coronaviruses are unlikely to survive for long once droplets produced by coughing or sneezing dry out.
- The structure of these viruses includes a lipid envelope, which is easily compromised by most disinfectants. Once the lipid envelope is damaged, the integrity of the virus is compromised, thereby neutralizing its capacity to infect. Flu viruses are relatively fragile, so standard cleaning and disinfecting practices are sufficient to remove or kill them.
- New studies have shown that the virus can remain viable and infectious in aerosols for hours and on surfaces up to days.



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Personal Protective Equipment (PPE)			
<input checked="" type="checkbox"/>	Long sleeved shirts and pants		<input checked="" type="checkbox"/> High visibility vest
<input checked="" type="checkbox"/>	Hard Hat		<input type="checkbox"/> Cut 2 Gloves
<input checked="" type="checkbox"/>	Chemical Goggles, Splash Guard or Safety Glasses with Side Shields		<input type="checkbox"/> Cut 3 Gloves
<input checked="" type="checkbox"/>	Steel Toed Leather Boots		<input checked="" type="checkbox"/> Chemical resistant gloves - nitrile or neoprene
<input checked="" type="checkbox"/>	½ face respirator	<input type="checkbox"/> Full face respirator	<input type="checkbox"/> PAPR <input type="checkbox"/> Airline with full face
<input type="checkbox"/>	P100 filters		<input checked="" type="checkbox"/> Combination P100/organic filters
<input type="checkbox"/>	Other:		<input type="checkbox"/> Other:

Other Equipment and Items Required			
<input checked="" type="checkbox"/>	Warm running water and soap to ensure workers are able to wash hands for at least 20 seconds.		<input checked="" type="checkbox"/> Alcohol-based hand sanitizer that contains 60%-95% alcohol if no water is available to ensure all workers are able to wash hands for at least 20 seconds.
<input checked="" type="checkbox"/>	Disposable paper or single-use cloth towels		<input checked="" type="checkbox"/> Safety Data Sheets
<input checked="" type="checkbox"/>	Eyewash unit capable of providing 15-minute rinse (when using Clorox® Disinfecting Bleach).		<input checked="" type="checkbox"/> Eyewash unit capable of providing a rinse of several minutes (when using Spray Nine® Disinfectant).
<input checked="" type="checkbox"/>	Means to flush any affected skin for a minimum of 15-minutes (when using Clorox® Disinfecting Bleach).		<input checked="" type="checkbox"/> Means to flush any affected skin for several minutes (when using Spray Nine® Disinfectant).
<input type="checkbox"/>	Other:		<input type="checkbox"/> Other:

First Aid	
Inhalation	<ul style="list-style-type: none"> Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.



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First Aid	
Ingestion	<p>Spray Nine® Disinfectant:</p> <ul style="list-style-type: none">• Seek medical aid immediately.• Do not induce vomiting.• Give water if person is conscious. <p>Clorox® Disinfecting Bleach:</p> <ul style="list-style-type: none">• Have person sip a glassful of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.• Call a poison control center or doctor immediately for treatment advice.
Eye contact	<p>Spray Nine® Disinfectant:</p> <ul style="list-style-type: none">• Rinse cautiously with water for several minutes.• Remove contact lenses, if present and easy to do. Continue rinsing.• If eye irritation persists, get medical advice/attention. <p>Clorox® Disinfecting Bleach:</p> <ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
Skin contact	<p>Spray Nine® Disinfectant:</p> <ul style="list-style-type: none">• Wash skin with soap and water.• If skin irritation persists, call a physician.• Wash contaminated clothing before reuse. <p>Clorox® Disinfecting Bleach:</p> <ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.

These Safe Work Procedures are meant to be used in conjunction with Ledcor's WHMIS Program. Work is to be carried out by appropriately instructed and knowledgeable workers.

Safe Work Procedures

a. Pre-Job Work Tasks

- Tool-box meeting and conduct all Ledcor pre-job safety reviews.
- Review these safe work procedures.
- Obtain all necessary cleaning supplies, equipment and PPE needed for the task.
- Ensure that hands have been washed for at least 20 seconds using soap and warm water and dry with disposable paper or single-use cloth towel or an alcohol-based



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hand sanitizer that contains 60%-95% alcohol if no water is available and hands are not visibly soiled prior to donning gloves.

- Cleaning staff are to be reminded to avoid touching their face, especially their mouth, nose, and eyes at all times, including while wearing gloves.

b. Perform Cleaning (If required due to excess dirt)

- Don PPE.
- If required, pre-clean any surfaces prior to disinfecting to remove any excess dirt or grime.
- If surfaces are dirty, they can be cleaned using a detergent or soap and water.
- Follow the manufacturer's instructions for appropriate dilution if using a detergent.
- Place the detergent or soap and water into a spray bottle or bucket.
- Using sponges, rags, mops or disposable paper towels, wipe off the detergent or soap and water after misting the surfaces.
- If using a bucket of detergent or soap and water, apply the solution to all surfaces and wipe off using sponges, rags, mops or disposable paper towels.
- Mechanical cleaning can also be done using a HEPA filtered vacuum, if dry dust is observed on surfaces.
- Once any visible dirt or grime is removed, move on to disinfection of surfaces.
- Proceed to decontamination procedures at the end of each shift and prior to breaks.

c. Perform Disinfection

When using Clorox® Disinfecting Bleach:

NOTE: Do not use bleach on electronics such as computer displays or keyboards. It is safe to gently wipe keyboards and displays with a 70% isopropyl alcohol wipe or Clorox Disinfecting Wipes.

- Don PPE if not already donned.
- Ensure that hands have been washed for at least 20 seconds using soap and warm water and dry with disposable paper or single-use cloth towel or an alcohol-based hand sanitizer that contains 60%-95% alcohol if no water is available and hands are not visibly soiled prior to donning gloves.
- Check to ensure the product is not past its expiration date. Never mix household bleach with ammonia or any other cleanser.
- Prepare a bleach solution by mixing: 5 tablespoons (1/3 cup) bleach per gallon (~ 4 L) of water. This is equal to 1 parts bleach to 49 parts water or 200 mL in a 10 L bucket.
- The solution will be required to be made daily and is not to be re-used except on the shift that it was prepared for.
- Place the bleach solution into a spray bottle or use the solution from a bucket.
- If applying the solution using a spray bottle, apply the solution to all surfaces and allow to remain wet for 10 minutes.
- If using the solution in a bucket, using sponges, rags or mops, apply the solution to all surfaces and allow to remain wet for 10 minutes.
- After 10 minutes, dry surfaces using sponges, rags, mops or disposable paper towels.
- Change the sponge, rag or mop being used often.



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- Once complete, put all rags, sponges, mops, disposable towels into a leak proof waste bag and seal for disposal.

When using Spray Nine® Disinfectant:

NOTE: Some surfaces, such as aluminum alloys, are inherently sensitive to alkaline cleaners. Always test on a small area of surface to be cleaned and air dry completely to determine colorfastness and surface integrity. Do not use on wool, leather, glass, untreated wood, treated fabrics or weathered surfaces. Do not use this product in combination with caustics, acids or bleach.

- Don PPE if not already donned.
- Ensure that hands have been washed for at least 20 seconds using soap and warm water and dry with disposable paper or single-use cloth towel or an alcohol-based hand sanitizer that contains 60%-95% alcohol if no water is available and hands are not visibly soiled prior to donning gloves.
- Apply the solution to all surfaces and allow to remain wet for 30 seconds.
- Using sponges, rags, mops or disposable paper towels, wipe thoroughly.
- Change the sponge, rag or mop being used often.
- When used on food contact surfaces such as counters and tables, rinse the solutions off with potable water prior to wiping thoroughly.
- Once complete, put all rags, sponges, mops, disposable towels into a leak proof waste bag and seal for disposal.

d. Decontamination Procedures

- Re-useable supplies such as mop handles and vacuums must be thoroughly cleaned before removing from the work area. These items are to be wiped using the same products used for disinfection of surfaces as per the cleaning and disinfection procedures before leaving the work area.
- Cleaned supplies can now be placed outside the work area.
- Any materials that can not be properly decontaminated at the end of the project, such as sponges, rags, mop heads, must be disposed of as non-hazardous waste in leak proof garbage bags and sealed for disposal.
- **DO NOT REMOVE GLOVES OR RESPIRATOR AT THIS TIME.**
- Proceed to the wash facilities provided.
- Remove gloves, and thoroughly clean hands using soap and water and dry with disposable paper or single-use cloth towel or alcohol-based hand sanitizer that contains 60%-95% alcohol if no water is available and hands are not visibly soiled. Use a nail brush if necessary.
- Remove the respirator.
- Thoroughly wash hands again, using soap and water and dry with disposable paper or single-use cloth towel or an alcohol-based hand rub if no water is available and hands are not visibly soiled for at least 20 seconds. Use a nail brush if necessary.
- Wash and rinse the inside of the respirator.
- Inspect respirator and, if in good condition, place in designated respirator storage location/bag. If it is the last use of the filter cartridges, they must be disposed of with the rest of the waste.



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- All disposable materials must be placed into a leak proof garbage bag and sealed for disposal.

Completed By:

Anna Rybczynski BSc., CRSP

OHS Consultant

(236) 838-8009 | anna@vohsgroup.com

Reviewed By:

Robin Van Driel M.Sc., CIH, ROH, CRSP

Principal, Sr. Occupational Hygienist

(778) 879-8009 | robin@vohsgroup.com