

PCS Hypochlorous Water Cleaning and Disinfecting Process Revolutionizes Hospital Cleaning with Safe and Effective Results

The issues surrounding commercializing the use of Hypochlorous acid have rapidly diminished.

PCS Hypochlorous Water Cleaning, Oxidizing and Disinfecting processes have merged into a game changing process.

1st PCS Hypochlorous Water Surface Cleaning without Harming

- Apply and Dry surface cleaning with 50 ppm Hypochlorous acid.
- Removes 99.17 % of vegetative bacteria Staph. aureus. Test performed with soil challenge.
- Removes 92.80 % of C.difficile spores. test performed with soil challenge.
- Safe concentration can be applied by spray on any surface or in the air without harm.
- Removes the majority of microbial and other organic substances that reduce the efficacy of disinfectants.
- When combined with application of PCS 1000 Plus Oxidizing Disinfecting cleaner allows institutions to achieve the desired cleaning results of less than 1 CFU per square centimeter.
- Most hospitals on average using a one step process do not reduce microbial bioburden to less than 1 CFU per square centimetre, in fact many hospitals cleaning and disinfecting processes struggle to reduce surface contamination by more than 50%.
- Independent Microbial Audits pre and post cleaning in three separate hospitals.

PCS Hypochlorous Water Cleaning, oxidizes and penetrates C. difficile allowing for rapid removal of high numbers of spores when compared to removal rates of neutral detergents, hydrogen peroxide and quaternary disinfectants.

PCS Hypochlorous Water Cleaning oxidizes and penetrates and removes organic soils allowing subsequent application of PCS 1000 Plus to Oxidize and destroy the few remaining pathogens.

PCS Hypochlorous Water Cleaning Without Harming.

2nd PCS 1000 Plus Oxidizing Disinfectant Cleaner after Hypochlorous Water Cleaning

- * Ready to use Oxidizing Disinfectant Cleaner that can be applied with most health care application methods.
- * Use PCS Four Fold Wipes. Sodium Hypochlorite and Hypochlorous Acid compatible. Wipes can be dispensed from bucket wet or dry.
- * PCS 1000 Plus ready to use DIN: 025221431 or concentrate DIN: 02521504 are available now with existing disinfectant claims as broad-spectrum hospital disinfectants and broad spectrum virucides.
- * When applied after PCS Hypochlorous water surface cleaning
- * Oxidizes remaining organic bacteria, viruses and bacterial spores to less than 1 CFU per square centimetre.
- * Safer disinfectants and safer and more effective hospital cleaning.





PCS 1000 Plus Oxidizing Disinfectant Cleaner

Powerful disinfectants that are gentle on staff, surfaces and the environment.

Health Canada list of disinfectants likely to be effective against Covid 19, of the more than 700 products listed only Neutral pH PCS 1000 Plus Oxidizing Disinfectant Cleaner list sodium hypochlorite and hypochlorous acid as the active ingredients. The formulation is a very mild category four disinfectant that does not require caution or warning symbols/statements on the label.

PCS Neutral pH products are a combination of hypochlorous acid and sodium hypochlorite that oxidize organic soils, then decompose upon drying leaving no residual disinfectant on surfaces. PCS Buffered pH products form an equilibrium of hypochlorous acid and sodium hypochlorite. The sodium hypochlorite provides cleaning and stability, the hypochlorous acid provides milder solutions with increased disinfection. Sodium hypochlorite oxidizes bacteria from the outer cell surface. Hypochlorous acid penetrates through the bacterial cell wall allowing for cell oxidation to occur simultaneously from the inside and outside of the cell.

C. difficile Cleaning Process

- 1

Apply **PCS 1000 Plus Oxidizing Disinfectant Cleaner** to the surface to be decontaminated with a **PCS Four Sided Single Use Wiper** or **PCS Microfibre Cloth** or **PCS Toraysee™ Cloth**.
- 2

Wipe the surface twice in the same direction. This will remove 99.9% of *C. difficile* spores.
- 3

Flip the cloth or wiper to the clean side and re-wipe the surface. This will remove any organic soils that may have been left after step 2.



PCS 1000 Plus Oxidizing Disinfectant Cleaner

This product is a broad-spectrum virucidal hard surface disinfectant that is expected to inactivate the SARS-CoV-2 (the virus that causes COVID-19) Kills 99.99% of bacteria and viruses, Kills 99.99% of germs, Kills Staphylococcus aureus, Pseudomonas aeruginosa, Human Coronavirus, and Adenovirus Type 5 Broad Spectrum Virucide, Bactericide/Virucide PCS 1000 Plus pH – neutral oxidizing disinfectants are available in ready to use or dispense on-demand formats.

Ready-to-use

- DIN 02521431
- Oxidizing cleaner
- Oxidizing hospital grade disinfectant
- Oxidizing broad spectrum virucide
- Active Ingredient
Sodium Hypochlorite
0.13% w/w when packed
Hypochlorous Acid
0.01% w/w when packed

Concentrate

- DIN 02521504
- Oxidizing cleaner
- Oxidizing hospital grade disinfectant
- Oxidizing broad spectrum virucide
- Active Ingredient
2% w/w Sodium Hypochlorite when packed

PCS patented NPH dispenser is preset to dilute and buffer pH of diluted PCS 1000 Oxidizing Disinfectant Cleaner Concentrate. When diluted this product has 0.13 % Sodium Hypochlorite and 0.01% Hypochlorous Acid.

C. difficile spores inactivating/removing activity using PCS Toraysee™ cloth and HPW.

Product	CFU/cm2			Percent	
	Control	After Wiping	Transfer	Reduction	Transfer
PCS Toraysee™ cloth	7.67 x10 ⁶	0	0	100*	0*
HPW	6.67 x10 ⁶	~6.67 x10 ⁶	2.50 x10 ⁵	0**	37.5

*=No CFU were detected in the eluents tested.

** Almost the same number of CFU was recovered from Contaminated Carriers

Scientifically validated cleaning process with two separate studies to remove 100% of *C. difficile* spores and prevent their transfer. Positive control HPW failed to remove *C. difficile* spores and transferred 37.5% to a previously uncontaminated platform.

PCS 1000 PLUS WHITE PAPER

[ASSESSMENT OF ACTIVITY OF PCS TORAYSEETM CLEANING CLOTHS FOR DECONTAMINATING HARD, NON-POROUS ENVIRONMENTAL SURFACES: TESTING WITH CLOSTRIDIUM DIFFICILE SPORES \(ATCC 43598\), STAPHYLOCOCCUS AUREUS \(ATCC 6538\) AND SERRATIA MARCESCENS \(ATCC 13880\) AS REPRESENTATIVE HEALTHCARE- ASSOCIATED PATHOGENS](#)

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