

# Think Globally But Buy Local

## PCS Hypochlorous Water

### Surface cleaning without disturbing dry surface biofilms



#### Our Indoor Microbiome Includes Difficult to Remove Biofilms on Dry Surfaces

Biofilms can be thought of as a 'microbial village', with an identifiable infrastructure supporting a disparate mesh of bacteria, viruses, fungi, protozoa and spores embedded in exopolymeric substances (EPS) comprising 90% of biofilm.

#### A community of microorganisms that inhabit most environments.

In Canada, registered disinfectants make no claim to disinfect bacteria encased in dry surface biofilms. According to Professor Stephanie Dancer, Dry Surface Biofilms indoors are on most, if not all, surfaces. Professor Dancer visited Canada's High Arctic and was able to resuscitate 30,000 years old bacteria from a glacier. We may want to pay attention when Professor Dancer suggested cleaning without toxic cleaners or disinfectants to encourage harmless bacteria to populate our Dry Surface Biofilms.

Dry surface biofilms cannot be overlooked in the efforts to create a safe hospital environment, with introduction of cleaning and disinfection protocols against dry surface biofilms.

#### PCS Hypochlorous Water surface cleaning without disturbing dry surface biofilms.

PCS Hypochlorous Water remove soils, including bacteria not attached to surfaces from dry surface biofilms, without harming the biofilm integrity. Disinfectants and harsh cleaners damage dry surface biofilms causing them to release large numbers of microbes to the biofilm surface. Posing a health risk of infection by touching surfaces cleaned/disinfected.

Dry surface biofilms, when not disrupted, release very few microbes to the surface of the biofilm and pose a low risk to health.

PCS Hypochlorous Water contain very low levels of stabilized hypochlorous acid, acetic acid and buffering agents. PCS Hypochlorous Water contain at use concentrations insufficient chemical concentration to harm microbes encased in dry surface biofilms or to attack or remove biofilm matrix. Use PCS Hypochlorous Water to clean frequently touched surfaces, floors, walls, equipment, and most surfaces not damaged by water.

We need to encourage dry surface biofilms to include beneficial bacterial populations.

PCS Hypochlorous Water is not hazardous under WHIMIS and requires no use of PPE's is not corrosive to surfaces; the ready-to-use solution has almost no detectable odour, will not stain cloths or require rinsing. Can be used with most currently used cleaning techniques.

PCS Hypochlorous Water's ready to use stabilized formulation remains effective for years in sealed unopened containers. PCS Hypochlorous Water is available in ready-to-use 946ml and 3.78L packages and in a concentrate that dilutes 32 parts water and 1 part cleaner.

#### Ready-to-Use

Code	Description
6080-4	(Open stock) 3.78L x 4
6080-6	946ml x 6

#### Reference

##### [Dry surface biofilms: what you need to know](#)

Ledwoch K, Vickery K, Maillard J-Y. Dry surface biofilms: what you need to know. Br J Hosp Med. 2022. <https://doi.org/10.12968/hmed.2022.0274>

##### [How Do Biofilms Affect Surface Cleaning in Hospitals?](#)

by Stephanie J. Dancer

Department of Microbiology, NHS Lanarkshire and School of Applied Sciences, Edinburgh Napier University, Edinburgh EH10 5DT, UK Hygiene 2022, 2(3), 132-135; <https://doi.org/10.3390/hygiene2030011> Received: 2 August 2022 / Revised: 16 August 2022 / Accepted: 19 August 2022 / Published: 2 September 2022

##### [Mayo Clinic Study 2021 H2O2 vs HOCL](#)

In Vitro Antibacterial Activity of Hydrogen Peroxide and Hypochlorous Acid, Including That Generated by Electrochemical Scaffolds. These results suggest that HOCl has similar activity against planktonic and biofilm bacteria whereas the activity of H2O2 is less against biofilm than planktonic bacteria

#### Concentrate

Code	Description
6081-2	(Closed loop) 3.78L x 4
6081-4	(Open Stock) 3.78L x 4
6081-6	946ml x 6
6081-CS	4.73L x 2 (1 tap per case).

