



PROCESS CLEANING SOLUTIONS
Bringing Science to the Art of Cleaning™



PRESS RELEASE

PCS is proud to announce a first in the Canadian healthcare cleaning and disinfection technology



PCS 1000 Plus Oxidizing Disinfectant Cleaner

DIN: 02521431

- Oxidizing cleaner
- Oxidizing hospital grade disinfectant
- 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) and other enveloped and non-enveloped viruses
- Active Ingredient
- Sodium Hypochlorite - 0.13% w/w when packed
- Hypochlorous Acid - 0.01% w/w when packed

PCS 1000 Plus Oxidizing Disinfectant Cleaner for use on hard non-porous environmental surfaces in domestic, health care facilities, institutions, schools and hospitality industries.

1st Health Canada registered disinfectant cleaner that lists both Sodium hypochlorite and Hypochlorous acid as active ingredients.

Sodium hypochlorite products commonly sold have high alkali pH in the range of 11 to 13 in order to remain stable. PCS converts some of the Sodium hypochlorite in the formulation to Hypochlorous acid by adjusting pH to 8.5 where Hypochlorous acid forms and exist in an equilibrium with Sodium hypochlorite.

1st Health Canada registered Sodium hypochlorite disinfectant achieving category four status meaning the formulation is so mild that the label requires no CAUTION, WARNING or IRRITANT cautionary statements.

Bleach based cleaners are expected to be skin and eye irritants. Whole formulation test confirm PCS 1000 Plus is practically non irritating to eyes confirming EPA category four status not requiring cautionary statements.

PCS 1000 Plus Oxidizing Disinfectant Cleaner Concentrate • DIN: 02521504

1st Health Canada registered Sodium hypochlorite disinfectant cleaner concentrate that is diluted through a patented process of diluting the concentrated Sodium hypochlorite and simultaneously adjusting pH with dilute acetic acid to create a stable equilibrium of Hypochlorous acid and Sodium hypochlorite.

Diluted solutions contain 0.13% Sodium hypochlorite and 0.01% Hypochlorous acid.

1st Oxidizing Hospital Grade Broad Spectrum Virucide containing both Sodium hypochlorite and Hypochlorous acid without the addition of synthetic detergent surfactants or surfactant disinfectants.

Sodium hypochlorite and Hypochlorous acid degrade upon drying on surfaces treated to Sodium chloride. Synthetic detergent surfactants or surfactant disinfectants ie inert components of Hydrogen peroxide disinfectants or Quaternary disinfectants and their synthetic detergents. Do not degrade on indoor surfaces and may last for years on surfaces or in indoor dust if not rinsed or removed. Multiple very recent research papers report Quaternary residues in household dust.

Two 2021 peer reviewed papers report a very large proportion of individuals tested had Quaternary disinfectant residues in their blood samples.

PCS believes in full ingredient disclosure.

In addition to the active ingredients, PCS 1000 Plus also contains the following non-active ingredients at a total concentration of less than 0.1%. Non-active ingredient list: Sodium Bicarbonate, Sodium Carbonate, Sodium Chloride, Acetic Acid and Sodium Hydroxide.

What about Sodium hypochlorite and Hypochlorous acid, they are very toxic to aquatic life and bacteria in the environment?

Sodium hypochlorite and Hypochlorous acid degrade by oxidation reaction with inorganic and organic substances when discharged down the drain in seconds to a few minutes. Sodium hypochlorite and Hypochlorous acid are completely reacted before reaching waste treatment plants.

Some hydrogen peroxide concentrated disinfecting solutions and their ready to use solutions are classified as hazardous waste.

RCRA Hazard Class (undiluted product): D002 Corrosive Waste.

RCRA Hazard Class (diluted product): D002 Corrosive Waste.

Synthetic detergent surfactants or surfactant disinfectants ie Quats reach waste treatment plants and rely on biodegrading or absorption into sludge to prevent their entering the environment. PCS list of inorganic ingredients do not rely on the biodegrading process and are naturally occurring in the environment.

PCS 1000 Plus inert natural ingredients are rated as practically nontoxic to aquatic life.

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

PCS 1000 Plus pH-neutral oxidizing disinfectants are available in ready-to-use or dispense-on-demand formats. PCS 1000 Plus RTU is packaged in 946ml bottles, 3.78L jugs, or 4.73L containers with a dispensing tap, at prices comparable to other RTU disinfection products.

Although many facilities prefer the convenience of purchasing ready-to-use products, installing and using the PCS 1000 Plus dispensing system is a cost-effective way to obtain the same effective product on demand.

Using this system will give a cost savings of 78% per 946ml bottle over the ready-to-use price. When an entire year of use is calculated, the cost savings are significant. PCS 1000 Plus Oxidizing Cleaner Concentrate and PCS 1000 Plus Neutralizing Solutions are supplied in closed loop, sealed 3.78L jugs.