

PCS

PROCESS CLEANING SOLUTIONS®
Bringing Science to the Art of Cleaning



Why your health care facility or corporation should consider PCS a Canadian based manufacturing corporation.

www.processcleaningsolutions.com

- PCS is the largest CANADIAN manufacturer of Health Canada DIN registered Bleach disinfectants with a variety of concentrations suitable and in use in a number of health care facilities in Canada. PCS products are manufactured in Peterborough by Ontario taxpayers supporting Ontario's health care system. Health care in Canada is a very small community and PCS is your local manufacturer of Health Canada approved sodium hypochlorite disinfectants.
- At PCS we have both ready to use liquids and pre moistened wipers with multiple concentrations of bleach registered with Health Canada. In health care both ready to use liquid and wiper formats are appropriate for use.
- At PCS we have many options that individual facilities can choose from starting with one concentration of hypochlorite for hospital wide use or combinations of programs that could include different concentrations for different departments. PCS has various options for cleaning MicroClean all natural cleaning, ECOgent General Purpose Cleaner with targeted use of disinfectants after cleaning alternatively PCS Microquat can be used as a cleaner disinfectant in many areas of the health care facilities.
- Compatible chemistries is very important when choosing hypochlorite disinfectants. At PCS all of our recommendations include various chemistries that do not offer significant health risk when chemical residues inadvertently interact on surfaces.
- PCS with our distribution partners offer staff training and assistance in selecting and use of various quality auditing processes including Glow germ marking and ATP testing of surfaces.

Replacing imported bleach products with locally manufactured products supports a sustainable Canadian economy.

PCS 5000 Oxidizing Disinfectant /Disinfectant Cleaner or wipes.
Health Canada approved label Kills *C. difficile* spore form in 5 minutes.

Process Cleaning Solutions Canada's largest manufacturer of Health Canada registered sodium hypochlorite disinfectants is pleased to announce the following Health Canada approved label changes.

PCS 5000 Oxidizing Disinfectant/Disinfectant Cleaner

- Kills Bacteria (Bactericide)
- Kills *Pseudomonas aeruginosa*, *Salmonella enterica*, and *Staphylococcus aureus*
- Kills *Clostridium difficile* (*C. difficile*) (sporeform)
- To disinfect apply to pre cleaned surfaces and keep wet for 5 minutes.
- Guarantee 0.5 % Sodium Hypochlorite when packed.

DIN: 02360500

PCS 5000 Oxidizing Disinfectant/Disinfectant Cleaner Wipes

- Kills Bacteria (Bactericide)
- Kills *Pseudomonas aeruginosa*, *Salmonella enterica*, and *Staphylococcus aureus*
- Kills *Clostridium difficile* (*C. difficile*) (spore form)
- To disinfect apply to pre cleaned surfaces and keep wet for 5 minutes.
- Guarantee 0.5% Sodium Hypochlorite when packed.

DIN: 02360519

RESULTS

For Control and Neutralization Results, see Tables 1-5.

All data measurements including the culture purity, carrier sterility, neutralizer sterility, carrier population, neutralization confirmation and HCl resistance controls were within acceptance criteria.

For Test Results, see Tables 6-8.

ANALYSIS

PCS 5000 Oxidizing Disinfectant/Disinfectant Cleaner {Lot 102108 (≥60 days old), Lot 122056 and Lot 122057}, ready to use, demonstrated a >99.9999% (>6.81 Log₁₀), a >99.9999% (>6.81 Log₁₀), and a >99.9999% (>6.72 Log₁₀) reduction, respectively, of *Clostridium difficile* - spore form (ATCC 43598) following a 5 minute exposure time when tested at room temperature (21°C).

STUDY CONCLUSION

Under the conditions of this investigation, PCS 5000 Oxidizing Disinfectant/Disinfectant Cleaner, ready to use, demonstrated efficacy against *Clostridium difficile* - spore form as required by the U.S. EPA and Health Canada Therapeutic Products Directorate following a 5 minute exposure time at room temperature (21°C).

In the opinion of the Study Director, there were no circumstances that may have adversely affected the quality or integrity of the data.

Scope: The purpose of this study is to compare the cleaning performance and speed of cleaning of commercial all purpose cleaners.

Standards: CSPA DCC-17 Greasy Soil Test Method for Evaluating Spray-and-Wipe Cleaners Used On Hard, Non-Glossy Surfaces

Products Tested:

Products	UPC#	Lot#
PCS1000 Oxidizing Disinfectant Cleaner LC#14-T0098	5107300006	14085
PCS5000 Oxidizing Disinfectant Cleaner LC#14-T0099	5107300556	63027

Equipment Used: Gardner Blue Straight-line Washability Machine
Hunter Labs Mini-Scan Colorimeter
Paint roller
Cheesecloth wipes
Cellulose Sponges
Latex Paint – flat
Binder clip
Caron 6010 Environmental Test Chamber

Materials: Soil Components:
Vegetable Shortening
Lard
Vegetable oil
Carbon Black

Procedure: Panel Preparation
Double-coat masonite tiles with latex paint using a paint roller, and allow to set overnight. Cure tiles at 50°C and 50% humidity for 24 hours.

Evaluation

$$\% \text{ Cleaning Efficiency} = (R^c - R^s) / (R^o - R^s) \times 100$$

Where R^c = cleaned reflectance
R^o = original reflectance
R^s = soiled reflectance

Results:

Sample	Avg. %C.E.
PCS1000 Oxidizing Disinfectant Cleaner LC#14-T0098	85.8
PCS5000 Oxidizing Disinfectant Cleaner LC#14-T0099	81.8

Pre cleaning provides the safest way to insure disinfectants are effective. Some companies claim one step just because their product is effective in the presence of organic soils.



CLEANING

PCS 5000 Oxidizing Disinfectant / Disinfectant Cleaner. Cleaning efficiency 81.8 % Cleaning performance testing using CSPA DDC-17 Acceptable cleaning performance for general purpose cleaners requires minimum scores of 75%.



SUMMARY OF RESULTS

Test Substance: PCS MR-2013 (Batch # 113020, 113021 and 113022)
Dilution: Ready to use
Test Organism: *Clostridium difficile* - spore form (ATCC 43598)
Exposure Time: 5 minutes
Exposure Temperature: Room temperature (20.7°C)
Organic Soil Load: 0.25% Bovine Serum Albumin, 0.08% Bovine Mucin and 0.35% Yeast Extract (final concentration)
Efficacy Result: PCS MR-2013 demonstrated efficacy of three batches against *Clostridium difficile* - spore form, and therefore, meets the performance requirements set forth by the U.S. EPA following a 5 minute exposure time at room temperature (20.7°C).

STUDY MATERIALS

Test System/Growth Media

Test Organism	ATCC #	Growth Medium	Incubation Parameters
<i>Clostridium difficile</i> - spore form	43598	CDC Anaerobic Blood Agar	35-37°C, anaerobic

PCS Stabilized Bleach Oxidizing Disinfectant/Disinfectant Cleaners

- **3 YEAR EXPIRY** - PCS Ready to use bleach products (Oxidizing Disinfectant/Disinfectant Cleaners) have demonstrated a minimum of thirty six months stability when stored under normal warehouse conditions.
- There is a Stabilized Bleach concentration for everyone's needs.



PCS 1000 Wiper Kits

DIN: 02314851

Contains 0.1% or 1000 parts per million of sodium hypochlorite.

Code #5986-6

1 x 750mL container of PCS 1000 Oxidizing Disinfectant/Disinfectant Cleaner

1 x 70 wipes with dispensing container

Code #5989

1 x 2.5L container of PCS 1000 Oxidizing Disinfectant/Disinfectant Cleaner

1 x 110 wipes with dispensing container

PCS 1000 Oxidizing Disinfectant/Disinfectant Cleaner

5906-6 6 x 946mL containers

PCS 1000 Oxidizing Disinfectant/Disinfectant Cleaner Wipes

5963-6 - 6x70 wipes/case

DIN 02360527



PCS 5000 Wiper Kits*

DIN: 02360500

Contains 0.5% or 5000 parts per million of sodium hypochlorite.

Code #5987-6

1 x 750mL container of PCS 5000 Oxidizing Disinfectant/Disinfectant Cleaner

1 x 70 wipes with dispensing container

Code #5990

1 x 2.5L container of PCS 5000 Oxidizing Disinfectant/Disinfectant Cleaner

1 x 110 wipes with dispensing container

PCS 5000 Oxidizing Disinfectant/Disinfectant Cleaner

5955-6 6 x 946mL containers

PCS 5000 Oxidizing Disinfectant/Disinfectant Cleaner Wipes

5960-6 - 6x70 wipes/case

DIN 02360519



CLEANING AND FOLLOWING BEST PRACTICES PAYS HUGE DIVIDENDS

C. DIFFICILE DECONTAMINATION PROCESS

Kill *C. difficile* spores with PCS 5000

AND Physically remove residual chemicals and spores with PCS 856 High Friction Dry wiper.