

# PREempt<sup>®</sup>

## CONCENTRATE

### Multi-Surface One-Step Disinfectant Cleaner

## Reference Sheet

Manufactured by:  
**Virox Technologies Inc.**  
2770 Coventry Road  
Oakville, ON CANADA L6H 6R1  
1-800-387-7578 | virox.com



When used as directed, this product is highly effective against a broad-spectrum of pathogenic microorganisms (including bacteria, antibiotic-resistant bacteria, \*viruses, fungi, mold and mildew.) At a 1:16 dilution (8 oz. of product per gallon of water), in the presence of 200 ppm hard water, 5% serum load and 5 minute contact time, unless otherwise noted, this product kills the following on hard non-porous inanimate surfaces:

#### USE DILUTION MADE EASY

Ratio	Per Gallon of Water	Per Liter of Water
1:16	8 oz.	64 mL
1:64	2 oz.	16 mL
1:128	1 oz.	8 mL
1:256	0.5 oz.	4 mL

#### Bactericidal: 5 Minute @ 1:16

*Acinetobacter baumannii*, (ATCC 19606)  
*Escherichia coli* O157:H7 (ATCC 35150)  
*Klebsiella pneumoniae* (ATCC 4352)  
*Listeria monocytogenes* (ATCC 19111)  
*Pseudomonas aeruginosa* (ATCC 15442)  
*Salmonella enterica*, (ATCC 10708)  
(formerly known as *Salmonella choleraesuis*)  
*Shigella dysenteriae* (ATCC 13313)  
*Staphylococcus aureus* (ATCC 6538)  
*Streptococcus pyogenes* (ATCC 12204)

#### Antibiotic-Resistant Bactericidal Activity

*Enterococcus faecium*, (Resistant to Vancomycin [VRE]) (ATCC 51559)  
*Escherichia coli*, (Extended Spectrum Beta-lactamase resistance ESBL, (ATCC BAA-196)  
*Klebsiella pneumoniae*, (Carbapenem-resistant [KPC]), (ATCC BAA-1705)  
*Staphylococcus aureus*, (CA-MRSA) (clinical Isolate 08001) (Genotype USA300)  
*Staphylococcus aureus*, (CA-MRSA) (clinical Isolate 08005) (Genotype USA400)  
*Staphylococcus aureus* (MRSA) (ATCC 33591)  
*Staphylococcus epidermidis* (MRSE) (ATCC 51625)  
*Streptococcus pneumoniae*, Penicillin Resistant (PRSP), (ATCC 700671)

#### \*Virucidal: 5 Minutes @ 1:16 - 1:64

At 1:16 - 1:64 dilution (2 - 8 oz. of product per gallon of water), in the presence of 200 ppm hard water, 5% serum load and 5 minute contact time, unless otherwise noted, this product kills the following on hard, non-porous inanimate surfaces:

\*Adenovirus type 8, (ATCC VR-1368, Strain Trim)  
\*Herpes simplex Type 2 (VR-734)  
\*Human Coronavirus (VR-740)  
\*Influenza Type A2 (Hong Kong) (VR-544)  
\*Norovirus (Feline Calicivirus as the surrogate) (VR-782)  
\*Parainfluenza Type 3 (VR-93)  
\*Poliovirus Type 1 (ATCC VR-1000)  
\*Respiratory Syncytial Virus (VR-26)  
\*Rhinovirus Type 37, Strain 151-1, (ATCC VR-1147)  
\*Rotavirus (Strain WA)  
\*Vaccinia Virus (smallpox vaccine virus) (ATCC VR-119)

Kills \*Hepatitis B Virus (HBV) & \*Hepatitis C Virus (HCV) when used as directed on hard, non-porous inanimate surfaces with a 5 minute contact time.

Kills \*HIV-1 (AIDS virus) (HTLV-IIIb) when used as directed on hard, non-porous inanimate surfaces with a 1 minute contact time.

\*This product has demonstrated effectiveness against Influenza A virus and is expected to inactivate all Influenza A viruses including Pandemic 2009 H1N1 Influenza A virus.

#### Fungicidal: 5 Minutes @ 1:16

This product is fungicidal when used as directed on hard, non-porous inanimate surfaces at a 1:16 dilution (8 oz. per gallon of water), and in the presence of a 5% serum load and 5 minute contact time.

*Trichophyton mentagrophytes*, (ATCC 9533)

#### Malodors

**Malodors** – reduces odors and odor-causing bacteria on hard nonporous surfaces in restroom areas, behind and under sinks and counters, and storage areas and other places where bacterial growth can cause malodors, when used as directed at a 1:16 dilution (8 oz. of product per gallon of water, in the presence of 200 ppm hard water and a 30 second contact time.

## Mold/Mildew

Kills the growth of mold and mildew when diluted at 1:16 in 200 ppm hard water at a 10 minute contact time: *Aspergillus niger* (ATCC 16404) and the odors caused by them when applied to hard, non-porous environmental surfaces.

Controls and prevents the growth of mold and mildew when diluted at 1:16 in 200 ppm hard water at a 10 minute contact time: *Aspergillus niger* (ATCC 6275) and the odors caused by them when applied to hard, non-porous environmental surfaces.

### Broad-Spectrum Non-Food Contact Sanitizing: 1:16 @ 30 Seconds

**Sanitizing:** When used as a non-food contact sanitizer at a 1:16 dilution (8 oz. of product per gallon of water), in the presence of 200 ppm hard water, 5% serum load, this product reduces the following bacteria by 99.9% with a 30 second contact time on hard non-porous inanimate surfaces:

*Enterobacter aerogenes* (ATCC 13048)

*Enterococcus faecalis*, *Vancomycin-Resistant* (VRE), (ATCC 51575)

*Escherichia coli*, *Extended Spectrum Beta-lactamase resistance* (ESBL), (ATCC BAA-196)

*Listeria monocytogenes*, (ATCC 19111)

*Pseudomonas aeruginosa* (ATCC 15442)

*Salmonella enterica* (ATCC 10708) (formerly known as *Salmonella choleraesuis*)

*Staphylococcus aureus* (ATCC 6538)

### Broad-Spectrum Non-Food Contact Sanitizing: 1:128 @ 3 Minutes

**Sanitizing:** When used as a non-food contact sanitizer at a 1:128 dilution (1 oz. of product per gallon of water), in the presence of 200 ppm hard water, 5% serum load, this product reduces the following bacteria by 99.9% with a 3 minute contact time on hard non-porous inanimate surfaces:

*Escherichia coli* (ATCC 11229)

*Enterococcus faecalis* (ATCC 29212)

*Klebsiella pneumoniae* (ATCC 4352)

*Listeria monocytogenes* (ATCC 19111)

*Pseudomonas aeruginosa* (ATCC 15442)

*Salmonella enterica*, (ATCC 10708) (formerly known as *Salmonella choleraesuis*)

*Staphylococcus aureus* (ATCC 6538)

## Bactericidal Stability of Use-Solution

Tests show this product as a disinfectant, when diluted at 1:16 dilution (8 oz. of product per gallon of water) in 200 ppm hard water, in the presence of 5% serum, remains effective against *Staphylococcus aureus*, *Salmonella enterica* (formerly known as *Salmonella choleraesuis*) and *Pseudomonas aeruginosa* for up to 10 - 90 days in storage as long as the bottle remains sealed.

If the use-solution becomes visibly dirty or contaminated, it must be discarded and a fresh product prepared. Always use clean, dry containers when diluting this product. Treated surfaces must remain wet for 5 minutes.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

### To Kill Mold and Mildew:

Dilute at 8.0 oz. of product per gallon of water (1:16). Pre-clean surfaces. Apply Use Solution to hard, non-porous environmental surfaces. Allow surfaces to remain wet for ten (10) minutes. Wipe surfaces and let air dry.

### To Control Mold and Mildew:

Dilute at 8.0 oz. of product per gallon of water (1:16). Apply Use Solution to pre-cleaned hard, non-porous environmental surfaces. Wipe surfaces and let air dry. Repeat application weekly or when growth reappears.

### To Kill Fungi:

Dilute at 8.0 oz. of product per gallon of water (1:16). Pre-clean heavily soiled areas. Apply Use Solution to hard, non-porous environmental surfaces. Allow surface to remain wet for five (5) minutes. Wipe surfaces and let air dry.

**For use as a \*Virucide:** Dilute at 2 - 8 oz. of product per gallon of water (1:16 - 1:64).

1. Pre-clean heavily soiled areas.
2. Apply Use Solution until thoroughly wet.
3. Let stand for five (5) minutes.
4. Wipe surfaces and let air dry.