

FRUITS  
&  
VEGETABLES

INSTRUMENTS  
&  
TOOLS

MEDICAL  
SURFACES



High Foaming  
Formula

APPROVED BY: HEALTH CANADA | CANADIAN FOOD INSPECTION AGENCY (CFIA) | ECOSEAL

Virucidal - Bactericidal  
Fungicidal - Algaecidal  
Sporicidal

# PSA HF

Patented | Food grade disinfectant and odorless | Food  
Contact No-Rinse | Chlorine-Free disinfection | High efficiency  
at low dosage rates | Fast acting, reduced kill time |  
Biodegradable Safe, Non-toxic and non-harsh | Non-corrosive  
| Non-carcinogenic | Shelf life 2 years



**atomes**  
Advanced Biochemicals

[www.atomesbio.com](http://www.atomesbio.com)

## THE TECHNOLOGY

**ATO PSA HF** is an odourless equilibrium mixture of peracids, hydrogen peroxide, food Grade stabilizers, Biosurfactants and biopolymer to act as a sequestering, wetting and penetrating agent.

**ATO PSA HF** product is considered as a high foaming single product, no need to generate in situ, it follows the strategy dose and go. The product was developed with a shelf life increased up to 2 years.

**ATO PSA HF** will always be delivered at 20% accurate concentration of Peracids. The Powerful oxidizing power of the Peracid destroys cell wall, DNA and proteins. Efficient against non-enveloped viruses, enveloped viruses, gram + bacteria, gram – bacteria, yeast, mold and algae.

## THE INDICATIONS

**Disinfecting open surfaces:** Dilute **ATO PSA HF** at 1% (10 ml/L). Apply the solution on the surface manually via sprayer or via Mop and Leave the solution for 30 seconds to air dry.

**Tools & Instruments (Cold Sterilization):** Dilute **ATO PSA HF** at 1% to 2% (10 g/L - 20 g/L). Soak for 3 to 10 min and cloth dry.

### Relative oxidization potential for common disinfectants

COMPOUND	OXIDATION POTENTIAL (Ev)
<b>ATO PSA HF</b>	<b>1.81</b>
<b>Chlorine Dioxide</b>	<b>1.57</b>
<b>Sodium Hypochlorite</b>	<b>1.36</b>

1

Prepare a 1% Solution. (10 ml of PSA in 1 L of clean water)

2

Damp mop all appropriate areas. PSA could be also sprayed

3

Mop up corners to prevent buildup. Mop in Zig Zag motion

4

Change the mop when soiled. Inspect the work.



### Bacteria, Yeast, Molds & Algae 100% Kill Less Than 5 min

Aerobacter aerogenes	Pityrosporum ovale
Bacillus aerus, var. mycoides (gram +)	Proteus vulgaris (gram -)
Bacillus subtilis (gram +)	Pseudomonas aeruginosa PRD-10 (gram -)
Brevibacterium ammoniagenes	Salmonella gallinarum (gram -)
Brucella abortus	Salmonella pullorum (gram -)
Citrobacter freundii	Salmonella typhimurium (gram -) Salmonella
Clostridium difficile (gram +)	schottumelleri (gram -) Salmonella typhosa
Escherichia coli (gram -) Enterobacter	(gram -)
aerogenes	Salmonella choleraesuis (gram -)
Klebsiella pneumoniae Lactobacillus	Shigella sonnei (gram -)
casei	Staphylococcus aureus (gram +)
Listeria monocytogenes (gram +)	Methicillin Resistant Staphylococcus Aureus
Monilia albicans	(MRSA) (gram +)
Mycobacterium amegmatis Neisseria	Streptococcus pyogenes C-203 (gram +)
caiarbalis (gram -) Pasteurella	Streptococcus fecalis (gram +) Streptococcus
multocida (gram -) Penicillium	faecalis (VRE)
luteum	(Vancomycin resistant enterococci) (gram +)
Penicillium notatum	Streptococcus viridans (gram +)

### Viruses 100% Kill Less Than 5 min

All Enveloped Viruses  
 Hepatitis B Virus  
 Hepatitis C Virus  
 Herpes Simplex virus Type 1  
 Herpes Simplex virus Type 2  
 HIV-1 (the AIDS Virus)  
 Influenza A / Brazil (Influenza)  
 Respiratory Syncytial Virus (RSV)  
 Vaccinia (Pox Virus)  
 Animal Viruses  
 Avian Infectious Bronchitis Virus Avian  
 Influenza Virus  
 Canine Distemper Virus  
 Coronavirus (CCRV)  
 Newcastle's Disease Virus  
 Pseudorabies Virus



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