



# ATO QUAT

## (DIN#02243658)

(page 1)

### Quaternary ammonium based disinfectant

#### DESCRIPTION

**ATO QUAT (DIN#02243658)** is a foaming **disinfectant** that could be used by circulation or manual application. Whenever disinfection is required, **ATO QUAT** will do excellent work economically.

#### APPLICATION

Do not mix with soap. Apply or let soak on clean surfaces for 3 minutes minimum.

**Disinfection:** 5mL/L of water provide 500 ppm of active quaternary ammonium. Rinse with abundant potable water.

**Sanitizing:** 2mL/L of water provide 200 ppm of active quaternary ammonium. Do not rinse if the concentration is equal or below 200 ppm.

#### PROPERTIES

Appearance: Clear liquid

Odor: Pleasant

pH (as is):  $7.00 \pm 1.00$

Specific gravity @ 25°C:  $0.985 \pm 0.050$

#### INGREDIENTS

Contains: 10% N-Alkyl dimethyl benzyl ammonium chloride



# ATO QUAT

(DIN#02243658)

(page 2)

## Quaternary ammonium based disinfectant

**ATO QUAT** is a wide spectrum disinfectant and is efficient against : virus, bacteria, yeast, mold and algae. At a concentration of 0.2% (2 ml / Liter), **ATO QUAT** is approved by **Health Canada** and **Agriculture Canada** without rinse with water. **ATO QUAT** belongs to a family of Quaternary compounds that are environmentally friendly.

### **VIRULICIDAL – BACTERICIDAL – FUNGICIDAL – ALGICIDAL**

#### **MICROBES**

*Aerobacter aerogenes*  
*Bacillus aerus, var. mycoides*  
*Bacillus subtilis*  
*Brevibacterium ammoniagenes*  
*Brucella abortus*  
*Escherichia coli*  
*Klebsiella pneumoniae*  
*Lactobacillus casei*  
*Listeria monocytogenes*  
*Monilia albicans*  
*Mycobacterium amegmatis*  
*Neisseria calarrbalis*  
*Pasteurella multocida*  
*Penicillium luteum*  
*Penicillium notatum*  
*Pityrosporum ovale*  
*Proteus vulgaris*  
*Pseudomonas aeruginosa PRD-10*  
*Salmonella gallinarum*  
*Salmonella pullorum*  
*Salmonella typhimurium*  
*Salmonella schottumelleri*  
*Salmonella typhosa*  
*Salmonella choleraesuis*  
*Shigella sonnei*  
*Staphylococcus aureus*  
*Streptococcus pyogenes C-203*  
*Streptococcus fecalis*  
*Streptococcus viridans*  
*Streptococcus viridans*  
*Trichophyton interdigitale*  
*Saccharomyces cerevisiae*  
*Pityrosporum ovale*



# ATO QUAT

(DIN#02243658)

(page 3)

## Quaternary ammonium based disinfectant

### **BACTERICIDAL, FUNGICIDAL and ALGICIDAL Action :**

Staphylococcus aureus  
Escherichia coli  
Citrobacter freundii  
Klebsiella pneumoniae  
Entérobacter aerogenes  
Proteus vulgaris  
Bacillus subtilis  
Pseudomonas aeruginosa  
Saccharomyces cerevisiae  
Candida albicans  
Oidium lactis  
Aspergillus niger  
Penicillium funiculosum  
Trichophyton mentagrophytes  
Epidermophyton floccosum  
Microsporum canis  
Microsporum gypseum

Cladosporium herbarum  
Aureobasidium pullulans

### **ALGICIDAL :**

Chlamydomonas  
Chlorella vulgaris  
Scenedesmus  
Kirchneriella  
Nostoc



# ATO QUAT

## (DIN#02243658)

(page 4)

### Quaternary ammonium based disinfectant

#### BIOLOGICAL PROPERTIES

##### Phenol Coefficients

Phenol Coefficients of **ATO QUAT** were determined by the official A.O.A.C procedure

#### 10- Minute Killing Dilution

Organism Bacteria	Dilution of AtoQuat in water to get the 10 minute killing	Concentration of AtoQuat (ml/L) to kill in 10 minutes	ppm of AtoQuat to kill the microbe in 10 minutes	Phenol Coefficient
<i>Brucella abortus</i>	1/5088	0.20 ml/L	20 ppm	370
<i>Escherichia coli</i>	1/3375	0.30 ml/L	30 ppm	390
<i>Klebsiella pneumoniae</i>	1/3125	0.32 ml/L	32 ppm	278
<i>Lactobacillus casei</i>	1/13125	0.08 ml/L	8 ppm	1050
<i>Listeria monocytogenes</i>	1/9000	0.11 ml/L	11 ppm	720
<i>Mycobacterium amegmatis</i>	1/2625	0.38 ml/L	38 ppm	309
<i>Neisseria caiarrbalis</i>	1/2163	0.46 ml/L	46 ppm	221
<i>Pasteurella multocida</i>	1/6763	0.14 ml/L	14 ppm	492
<i>Proteus vulgaris</i>	1/1500	0.66 ml/L	66 ppm	171
<i>Pseudomonas aeruginosa PRD-10</i>	1/1750	0.57 ml/L	57 ppm	200
<i>Salmonella gallinarum</i>	1/3500	0.28 ml/L	28 ppm	300
<i>Salmonella pullorum</i>	1/3125	0.32 ml/L	32 ppm	278
<i>Salmonella typhimurium</i>	1/2500	0.40 ml/L	40 ppm	250
<i>Salmonella schottumelleri</i>	1/7500	0.13 ml/L	13 ppm	630
<i>Salmonella typhosa</i>	1/5625	0.18 ml/L	18 ppm	500
<i>Shigella sonnei</i>	1/3125	0.32 ml/L	32 ppm	313
<i>Staphylococcus aureus</i>	1/5625	0.18 ml/L	18 ppm	750
<i>Streptococcus fecalis</i>	1/18750	0.05 ml/L	5 ppm	2150
<i>Streptococcus pyogenes C-203</i>	1/3125	0.32 ml/L	32 ppm	313
<i>Streptococcus viridans</i>	1/8750	0.11 ml/L	11 ppm	778
<b>FUNGI</b>				
<i>Saccharomyces cerevisiae</i>	1/6250	0.16 ml/L	16 ppm	500
<i>Pityrosporium ovale</i>	1/4375	0.22 ml/L	22 ppm	350