

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±1.00

Specific gravity @ 25°C: 0.985±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 meningitidis
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 (page 4)
(DIN#02243658)**

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