



Quick Change Thick Disinfectant Bowl and Porcelain Cleaner DATA SHEET (Maquat 2420 TBD-9)

EPA Number 10324-158-1674

Quick Change Thick Disinfectant Bowl and Porcelain Cleaner (Maquat 2420 TBD-9) is an acid disinfectant bathroom toilet bowl cleaner, especially formulated to kill the germs commonly found in hospital and industrial environments. This product contains a high level of acid and together with an acid compatible detergent system, facilitates the easy removal of resistant stains and permits disinfectant action. It is unique to the industry in it's ability to be formulated with a variety of acids, HCl, Phosphoric Acid, Lactic Acid, Citric Acid, Glycolic Acid and Acetic Acid. The cationic detergent system of this product inhibits acid corrosion of metal parts found around toilets bowls and urinals. It uses the 5th generation quat, Maquat 2420, as it's disinfectant base that has been proven to be highly efficacious with excellent performance in the presence of organic soils.

USE DILUTIONS:

Hospital disinfectant: Ready to Use no dilution necessary
 Virucidal: Ready to Use no dilution necessary.

QUICK CHANGE THICK DISINFECTANT BOWL AND PORCELAIN CLEANER (MAQUAT 2420 TBD-9)

TYPICAL PROPERTIES

Maquat 2420-50%	0.200%	Appearance @25°C	Clear Liquid
Acid Thickener	1.00%	pH, as is	1.6
Nonionic Surfactant*	0.38%	Density, lbs/U.S. gal (g/ml)	8.68 (1.042)
Macat AO-12 (Amine Oxide)	1.00%	Viscosity, cps @ 25°C	50-300
Acid**	Varies with Acid	Flash Point, SETA, °C (°F)	>94 (>201)
Dye	0.10%		
Fragrance	0.08%		
Opacifier	0.10%		
Water	<u>q.s</u>		
	100.00%		

OR

Maquat 2420-80%	0.125%
Acid Thickener	1.000%
Nonionic Surfactant*	0.380%
Macat AO-12 (Amine Oxide)	1.000%
Acid**	Varies with Acid
Dye	0.100%
Fragrance	0.080%
Opacifier	0.100%
Water	<u>q.s</u>
	100.00%

***Surfactants:** Triton X-100, Surfonic N-95, Tomadol 91-8

****Acid Choices:** HCl 31% use at 29.00%
 Phosphoric 85% use at 10.58%
 Phosphoric 75% use at 12.00%
 L(+) Lactic Acid 88% use at 10.22%
 Citric Acid use at 9.00%
 Glycolic Acid 70% use at 12.85%
 Acetic Acid 99% use at 9.09%

Toxicity Profile (9% HCl): Acute Oral LD₅₀ is 2.14g/kg
 Acute Dermal LD₅₀ > 2 g/kg
 Eye Irritation – Category I
 Skin Irritation – Category I
 Not a Skin Sensitizer
 DOT Corrosivity – Packing Group II

Efficacy for Quick Change Thick Disinfectant Bowl and Porcelain Cleaner (Maquat 2420 TBD-9)

Hospital Disinfection

This product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum (1,000 ppm active). Treated surfaces must remain wet for 10 minutes

(Testing is performed per the AOAC UDT/GST method (DIS/TSS-1). Sixty carriers are required on 3 separate lots, one of which must be > 60 days old against *Pseudomonas aeruginosa*, *Salmonella choleraesuis* and *Staphylococcus aureus*. Killing of 59 out of 60 carriers is required (total carriers = 540).)

	CARRIER POPULATION	SAMPLE	# CARRIERS	# POSITIVE
<i>Pseudomonas aeruginosa</i> ATCC #15442	5.4 X 10 ⁵ CFU/Carrier	A (60 Days Old)	60	0/60
		B	60	0/60
		C	60	0/60
<i>Salmonella choleraesuis</i> ATCC #10708	4.8 X 10 ⁵ CFU/Carrier	A (60 Days Old)	60	0/60
		B	60	0/60
		C	60	0/60
<i>Staphylococcus aureus</i> ATCC #6538	1.63 X 10 ⁵ CFU/Carrier	A (60 Days Old)	60	0/60
		B	60	0/60
		C	60	0/60

Supplemental Organisms

(Testing is performed per the AOAC UDT/GST method. Ten carriers are required on 2 separate lots against each supplemental organism. Killing of 10 out of 10 carriers is required (total carriers = 20).)

	CARRIER POPULATION	SAMPLE	# CARRIERS	# POSITIVE
<i>Enterococcus faecalis</i> Vancomycin Resistant (VRE) ATCC 51299	8.2 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Escherichia coli</i> ATCC 11229	6.4 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterobacteriaceae</i> (extended beta-lactamase resistance) ATCC BAA-72	1.13 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Salmonella typhi</i> ATCC 6539	9.8 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10

	CARRIER POPULATION	SAMPLE	# CARRIERS	# POSITIVE
<i>Serratia marcescens</i> ATCC 14756	1.37 X 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Shigella dysenteriae</i> ATCC 11835	8.9 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> (Methicillin Resistant) (MRSA) ATCC 33592	2.15 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> (VISA) ATCC HIP 5836	7.0 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10

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Virucidal against

This product was evaluated in the presence of 5% serum with a 10 minute contact time (1000 ppm quat active), and found to be effective against the following viruses on hard nonporous environmental surfaces.

(Testing is performed per EPA Guidance (DIS/TSS-7). Two separate lots are tested. Inactivation of virus must be demonstrated at all dilutions when no cytotoxicity is observed or at all dilutions above the cytotoxic level when it is observed. The data must demonstrate a 3-log reduction in viral titer for both lots (3 lots for Canada).)

	DRIED VIRUS CONTROL	SAMPLE	RESULT	LOG REDUCTION
Hepatitis A Virus Strain HM-175	5.5 Log ₁₀	A	≤1.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤1.5 Log ₁₀	≥4.0 Log ₁₀
Herpes Simplex Type1 ATCC VR-733 Strain F(1)	5.5 Log ₁₀	A	≤2.5 Log ₁₀	≥3.0 Log ₁₀
		B	≤2.5 Log ₁₀	≥3.0 Log ₁₀
Herpes Simplex Type 2 ATCC VR-734 Strain G	5.75 Log ₁₀	A	≤2.5 Log ₁₀	≥3.25 Log ₁₀
		B	≤2.5 Log ₁₀	≥3.25 Log ₁₀
Human Immunodeficiency Virus type 1 (HIV 1) HTLV-IIIB	5.5 Log ₁₀	A	≤2.5 Log ₁₀	≥3.0 Log ₁₀
		B	≤2.5 Log ₁₀	≥3.0 Log ₁₀
Influenza A Virus ATCC VR-544 Strain Hong Kong	5.75 Log ₁₀	A	≤2.5 Log ₁₀	≥3.25 Log ₁₀
		B	≤2.5 Log ₁₀	≥3.25 Log ₁₀
Rotavirus, Strain WA	5.5 Log ₁₀	A	≤2.5 Log ₁₀	≥3.0 Log ₁₀
		B	≤2.5 Log ₁₀	≥3.0 Log ₁₀

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