

EPA NUMBER: 10324-59-42403

USES

Cleaner, Disinfectant, Sanitizer, Fungicide, Mildewstat, Virucide*, For Hospitals, Nursing Homes, Hotels & Motels, Institutional, Industrial, Schools, Food Handling and Process Areas, and Institutional Kitchens.

USE DILUTIONS

		Quat Active	Hard Water
Hospital Disinfectant	2 oz. per gal of water	703 ppm	
Virucidal*	2 oz. per gal of water	703 ppm	
Fungicidal	2 oz. per gal of water	488 ppm	
Mold and Mildew	2 oz. per gal of water	488 ppm	
Sanitation Food Contact	2- 4 oz. per 3.5 gal	200 ppm	250 ppm

EFFICACY DATA

Hospital and General 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 at 2 ounces of this product per gallon of water (703 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 enterica and Staphylococcus aureus. Killing of 59 out of 60 carriers is required (total carriers = 540).)

Organism	Carrier Population	Sample	# Carriers	# Positive
Pseudomonas aeruginosa ATCC #15442	8.2 X 10 ⁶ CFU/Carrier	A (60 Days Old)	60	0/60
	4.3 X 10 ⁶ CFU/Carrier	В	60	1/60
	9.7 X 10 ⁵ CFU/Carrier	С	60	1/60
Salmonella enterica ATCC #10708	1.4 X 10 ⁴ CFU/Carrier	A (60 Days Old)	60	0/60
	7.3 X 10 ⁴ CFU/Carrier	В	60	0/60
	4.8 X 10 ⁵ CFU/Carrier	С	60	0/60
Staphylococcus aureus ATCC #6538	1.4 X 10 ⁶ CFU/Carrier	A (60 Days Old)	60	1/60
	2.8 X 10 ⁵ CFU/Carrier	В	60	1/60
	9.2 X 10 ⁵ CFU/Carrier	С	60	1/60

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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).)

Organism	Carrier Population	Sample	# Carriers	# Positive
Escherichia coli 0157:H7 ATCC 35150	3.1 X 10 ⁶ CFU/Carrier	Α	10	0/10
	3.4 X 10 ⁶ CFU/Carrier	В	10	0/10
Staphylococcus aureus (Methicillin Resistant) (MRSA) ATCC 33591	1.3 X 10 ⁵ CFU/Carrier	Α	10	0/10
		В	10	0/10

Virucidal against (at 2 ounces)

This product was evaluated at 2 ounces per gallon use level (703 ppm quat active), in the presence of 5% serum with a 10 minute contact time 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.)

Organism	Dried Virus Control	Sample	Result	Log Reduction
Avian Influenza A (H5N1) virus	4.5 Log ₁₀	Α	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		В	≤0.5 Log ₁₀	≥4.0 Log ₁₀
Avian influenza/	7.5 Log ₁₀	А	≤1.8 Log ₁₀	≥5.7 Log ₁₀
Turkey/Wisconsin ATCC VR-798		В	≤1.8 Log ₁₀	≥5.7 Log ₁₀
Hepatitis B Virus	6.84 Log ₁₀	А	≤1.78 Log ₁₀	≥5.06 Log ₁₀
		В	≤2.05 Log ₁₀	≥4.79 Log ₁₀
[7.14 Log ₁₀	Confirmatory B	≤2.35 Log ₁₀	≥4.79 Log ₁₀
Hepatitis C Virus	6.85 Log ₁₀	А	≤1.29 Log ₁₀	≥5.56 Log ₁₀
ATCC CCL-22		В	≤1.06 Log ₁₀	≥5.79 Log ₁₀
[6.85 Log ₁₀	Confirmatory B	≤1.06 Log ₁₀	≥5.79 Log ₁₀
Herpes Simplex Type 1	6.8 Log ₁₀	А	≤1.8 Log ₁₀	≥5.0 Log ₁₀
ATCC VR-266		В	≤1.8 Log ₁₀	≥5.0 Log ₁₀
Human Coronavirus ATCC VR-740	4.5 Log ₁₀	А	≤1.5 Log ₁₀	≥3.0 Log ₁₀
		В	≤1.5 Log ₁₀	≥3.0 Log ₁₀
Human Immunodeficiency Virus type 1 (HIV 1) HTLV-III _B	6.0 Log ₁₀	А	≤2.5 Log ₁₀	≥3.5 Log ₁₀
		В	≤2.5 Log ₁₀	≥3.5 Log ₁₀
Influenza A (H1N1) Virus ATCC VR-1469	6.5 Log ₁₀	А	≤0.5 Log ₁₀	≥6.0 Log ₁₀
		В	≤0.5 Log ₁₀	≥6.0 Log ₁₀
Influenza A2/Japan/305	7.5 Log ₁₀	А	≤1.8 Log ₁₀	≥5.7 Log ₁₀
ATCC VR-100		В	≤1.8 Log ₁₀	≥5.7 Log ₁₀
Norwalk/Norovirus ATCC VR-782	5.75 Log ₁₀	А	≤1.5 Log ₁₀	≥4.25 Log ₁₀
		В	≤1.5 Log ₁₀	≥4.25 Log ₁₀
	5.5 Log ₁₀	Confirmatory A	≤0.5 Log ₁₀	≥5.0 Log ₁₀

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Food Contact Sanitizer (No Rinse)

At 2 ounces per 3.55 gallons (200 ppm) this product is an effective food-contact surface sanitizer eliminating 99.999% of the of the following bacteria in 60 seconds in 250 ppm hard water (calculated as CaCO3) according to the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants test.

Testing is performed per the AOAC method (AOAC Germicidal and Detergent Sanitizers) on 3 separate lots, one of which must be > 60 days old, against both Escherichia coli and Staphylococcus aureus. Acceptable results must demonstrate a 99.999% reduction in the number of test microorganisms within 30 seconds.

Organism	Dried Virus Control	Sample	30 Sec. Kill	60 Sec. Kill
Escherichia coli ATCC #11229	7.47 Log ₁₀	Α	7.47 Log ₁₀	7.47 Log ₁₀
		В	7.47 Log ₁₀	7.47 Log ₁₀
		С	7.47 Log ₁₀	7.47 Log ₁₀
Staphylococcus aureus ATCC #6538	7.0 Log ₁₀	Α	7.0 Log ₁₀	7.0 Log ₁₀
		В	7.0 Log ₁₀	7.0 Log ₁₀
		С	7.0 Log ₁₀	7.0 Log ₁₀

Mold and Mildew Control

Use this product at 2 ounces per gallon to control the growth of mold and mildew and their odors on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let airdry. Repeat application weekly or when growth or odor reappears.

Organism	Tile Number	Untreated After 7 Days	Sample A After 7 Days	Sample B After 7 Days
Aspergillus niger	1	Growth 80%	No Growth 0%	No Growth 0%
ATCC #6275	2	Growth 100%	No Growth 0%	No Growth 0%
	3	Growth 90%	No Growth 0%	No Growth 0%
	4	Growth 80%	No Growth 0%	No Growth 0%
	5	Growth 80%	No Growth 0%	No Growth 0%
	6	Growth 80%	No Growth 0%	No Growth 0%
	7	Growth 80%	No Growth 0%	No Growth 0%
	8	Growth 100%	No Growth 0%	No Growth 0%
	9	Growth 100%	No Growth 0%	No Growth 0%
	10	Growth 80%	No Growth 0%	No Growth 0%

Fungicidal against

This product was evaluated at 2 ounces per gallon with a 10 minute contact time and found to be effective against the following fungi on hard nonporous environmental surfaces.

(Testing is performed per the AOAC fungicidal method (DIS/TSS-6). Two separate lots are tested against Trichophyton mentagrophytes in a suspension test. Killing of all fungal spores in 10 minutes is required.)

Organism	Carrier Population	Sample	# Carriers	# Positive
Trichophyton mentagrophytes ATCC #9533	1.1 X 10 ⁶ CFU/Carrier	Α	10	0/10
		В	10	0/10

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