

EFFICACY DATA for FACILITY MAINTENANCE GC-3 DISINFECTANT CLEANER
EPA Reg. No. 8155-23-83690

VIRUCIDAL DATA:

Test Method: * U.S. E.P.A. Pesticide Assessment Guidelines, Subdivision G: Product Performance, Section 91-2 (f), and Section 91-30, (d), (e), November 1982.

Test Conditions: 10 minute contact time, 5% serum, 250 ppm hard water, 1 oz/gal dilution

Results:

	<u>Test Organism</u>	<u>Replicates</u>	<u>Titer Reduction (after 10 min. contact)</u>
*	Herpes Simplex Type 1	8	≥5.0 log
*	Herpes Simplex Type 2	8	≥5.0 log
*	Hepatitis B Virus (HBV)	8	≥3.0 log
*	Human Immunodeficiency Virus, strain of HIV-1 (associated with AIDS)	8	≥3.0 log
*	Influenza A, Puerto Rico	8	≥3.0 log
*	Rubella	8	≥3.0 log
*	Vaccinia	8	≥3.0 log
*	Avian Influenza/Type A(Turkey/Wisc.)(H9N2)	A B	≥3.0 log
	Chlamydia psittaci	8	≥3.0 log

Conclusion:

Under the conditions of this investigation, product was **virucidal** for Avian Influenza/Type A, Chlamydia psittaci, Herpes Simplex Type 1, Herpes Simplex Type 2, Hepatitis B Virus (HBV), Human Immunodeficiency Virus (HIV-1), Influenza A, Rubella and Vaccinia according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

MILDEW FUNGISTATIC DATA:

Test Method: Hard Surface Mildew Fungistatic Test

Test Organism: *Aspergillus niger*

Test Conditions: 250 ppm hard water, 1 oz/gal dilution

Results:

<u>Sample</u>	<u>No. of Exposed Tiles</u>	<u>No. of Tiles Showing Growth</u>
A	10	0
B	10	0

Conclusion:

Under the conditions of this investigation, product was **fungistatic** for *Aspergillus niger* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungistat.

FUNGICIDAL DATA:

Test Method: AOAC Fungicidal Activity of Disinfectants

Test Conditions: 5% blood serum, 250 ppm hard water, 1 oz/gal dilution

Results:

<u>Test Organism</u>	<u>Sample</u>	<u>Exposure Time (min.) vs. Growth</u>		
		<u>5</u>	<u>10</u>	<u>15</u>
<i>Trichophyton mentagrophytes</i>	A	+	0	0
	B	+	0	0
<i>Candida albicans</i>	A	0	0	0

Conclusions:

Under the conditions of this investigation, product was **fungicidal** for *Trichophyton mentagrophytes* and *Candida albicans* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungicide.

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DISINFECTION DATA:

Test Method: AOAC Use Dilution

Test Conditions: 5% serum, 10 minute contact time, **250 ppm** hard water, 1 oz/gal dilution

Results:

<u>Test Organism</u>	<u>Sample</u>	<u>No. of Carriers</u>	
		<u>Exposed</u>	<u>Positive</u>
<i>Staphylococcus aureus</i> (ATCC 6538)	A	60	0
	B	60	0
	C	60	0
<i>Salmonella choleraesuis</i> (ATCC 10708)	A	60	0
	B	60	0
	C	60	0
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	A	60	0
	B	60	0
	C	60	0

DISINFECTION DATA:

Test Method: AOAC Use Dilution

Test Conditions: 5% serum, 10 minute contact time, 250 ppm hard water, 1 oz/gal dilution

Results:

<i>Brevibacterium ammoniagenes</i>	A	10	0
	B	10	0
<i>Enterobacter aerogenes</i>	A	10	0
	B	10	0
<i>Enterobacter cloacae</i>	A	10	0
	B	10	0
<i>Enterococcus faecalis</i>	A	10	0
	B	10	0
<i>Enterococcus faecalis</i> (Methicillin Resistant)	A	10	0
	B	10	0
<i>Enterococcus faecalis</i> (Vancomycin Resistant)	A	10	0
	B	10	0
<i>Escherichia coli</i> (Methicillin Resistant)	A	10	0
	B	10	0
<i>Klebsiella pneumoniae</i> (Methicillin Resistant)	A	10	0
	B	10	0
<i>Klebsiella pneumoniae</i>	A	10	0
	B	10	0
<i>Proteus vulgaris</i>	A	10	0
	B	10	0
<i>Salmonella schottmuellerii</i>	A	10	0
	B	10	0
<i>Salmonella typhi</i>	A	10	0
	B	10	0
<i>Salmonella typhimurium</i>	A	10	0
	B	10	0

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DISINFECTION DATA (continued)

<u>Test Organism</u>	<u>Sample</u>	<u>No. of Carriers</u>	
		<u>Exposed</u>	<u>Positive</u>
<i>Serratia marcescens</i>	A	10	0
	B	10	0
<i>Shigella dysenteriae</i>	A	10	0
	B	10	0
<i>Shigella flexneri</i>	A	10	0
	B	10	0
<i>Shigella sonnei</i>	A	10	0
	B	10	0
<i>Staphylococcus aureus</i> (Methicillin Resistant) (MRSA)	A	10	0
	B	10	0
<i>Staphylococcus aureus</i> (Vancomycin Intermediate Resistant) (VISA)	A	10	0
	B	10	0
<i>Streptococcus pyogenes</i>	A	10	0
	B	10	0

Conclusion: Under the conditions of these investigations, product demonstrated **disinfectant** activity against *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, *Brevibacterium ammoniagenes*, *Enterobacter aerogenes*, *Enterobacter cloacae*, *Enterococcus faecalis*, *Enterococcus faecalis* (Methicillin Resistant), *Enterococcus faecalis* (Vancomycin Resistant), *Escherichia coli* (Methicillin Resistant), *Klebsiella pneumoniae*, *Klebsiella pneumoniae* (Methicillin Resistant), *Proteus vulgaris*, *Salmonella schottmuellerii*, *Salmonella typhi*, *Salmonella typhimurium*, *Serratia marcescens*, *Shigella dysenteriae*, *Shigella flexneri*, *Shigella sonnei*, *Staphylococcus aureus*, *Staphylococcus aureus* (Methicillin Resistant), *Staphylococcus aureus* (Vancomycin Intermediate Resistant), *Streptococcus pyogenes* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

SANITIZATION DATA:

Test Method: Sanitizer-Non-Food, EPA
Test Conditions: 5% serum, 1 minute contact time, 250 ppm hard water, 1oz/gal dilution

Results:

<u>Test Organism</u>	<u>Sample</u>	<u>Titer Reduction (after 1 min. contact)</u>
<i>Staphylococcus aureus</i>	A	≥3.0 log (99.9% Reduction)
<i>Enterobacter aerogenes</i>	A	≥3.0 log (99.9% Reduction)

Conclusion: Under the conditions of these investigations, product demonstrated **Non-Food Sanitizing** activity against *Staphylococcus aureus* and *Enterobacter aerogenes* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a product as a non-food sanitizer.