

MASON CHEMICAL COMPANY “The Quaternary Specialists”

EPA Reg. No. 10324-85

9075 Centre Pointe Drive Suite 400 I West Chester, OH 45069 I 513-326-0600 or 800-70-PILOT

MAQUAT[®] 86-M

Cleaner • Disinfectant • Sanitizer • Deodorizer • Mildewstat • Virucide • Fungicide

DISINFECTION PERFORMANCE:

This product kills the following bacteria in 10 minutes on hard, non-porous surfaces with 5% soil:

Organism	Carrier Population (log ₁₀)	# Positive Carriers
<i>Pseudomonas aeruginosa</i> ATCC 15442	6.79	0/60
	6.61	0/60
	6.53	0/60
<i>Salmonella enterica</i> ATCC 10708	5.45	0/60
	5.90	0/60
	5.32	0/60
<i>Staphylococcus aureus</i> ATCC 6538	6.29	2/60
	6.74	0/60
	6.72	1/60
<i>Bordetella bronchiseptica</i> ATCC 10580	5.06	0/10
		0/10
<i>Burkholderia cepacia</i> ATCC 25416	5.51	0/10
		0/10
<i>Campylobacter jejuni</i> ATCC 29428	5.90	0/10
		0/10
<i>Corynebacterium ammoniagenes</i> ATCC 6871	6.20	0/10
		0/10
<i>Enterobacter aerogenes</i> ATCC 13048	4.91	0/10
		0/10
<i>Enterobacter cloacae</i> ATCC 13047	5.22	0/10
		0/10
<i>Enterobacteriaceae</i> ESBL ATCC BAA-72	5.51	0/10
		0/10
<i>Enterococcus faecalis</i> ATCC 19433	5.09	0/10
		0/10
<i>Enterococcus faecium</i> VRE (MDR) ATCC 51559	4.35	0/10
		0/10
<i>Escherichia coli</i> ATCC 11229	4.26	0/10
		0/10
<i>Escherichia coli</i> O25:H4 ST131 (MDR) CDC JJ1985	5.16	0/10
		0/10

<i>Escherichia coli</i> O157:H7 ATCC 35150	4.95	0/10 0/10
<i>Klebsiella pneumoniae</i> ATCC 13883	4.41	0/10 0/10
<i>Klebsiella pneumoniae</i> NDM-1 CDC 1000527	5.54	0/10 0/10
<i>Legionella pneumophila</i> ATCC 33153	7.20	0/10 0/10
<i>Listeria monocytogenes</i> ATCC 19117	4.75	0/10 0/10
<i>Proteus mirabilis</i> ATCC 7002	6.57	0/10 0/10
<i>Proteus vulgaris</i> ATCC 9920	5.78	0/10 0/10
<i>Pseudomonas aeruginosa</i> (MDR) (MBL) CDC 2012059	4.70	0/10 0/10
<i>Salmonella enterica</i> serovar Paratyphi B ATCC 8759	5.13	0/10 0/10
<i>Salmonella enterica</i> serovar Typhi ATCC 6539	6.04	0/10 0/10
<i>Serratia marcescens</i> ATCC 43861	4.39	0/10 0/10
<i>Shigella dysenteriae</i> ATCC 11835	5.03	0/10 0/10
<i>Shigella flexneri</i> serovar 2B ATCC 12022	4.99	0/10 0/10
<i>Shigella sonnei</i> ATCC 9290	4.41	0/10 0/10
<i>Staphylococcus aureus</i> HA-MRSA (MDR) ATCC 33591	4.12	0/10 0/10
<i>Staphylococcus aureus</i> CA-MRSA (USA400) NARSA NRS 123	4.61	0/10 0/10
<i>Staphylococcus epidermidis</i> (Methicillin Resistant) ATCC 51625	5.05	0/10 0/10
<i>Streptococcus pyogenes</i> ATCC 19615	5.20	0/10 0/10
<i>Vibrio cholerae</i> ATCC 11623	6.02	0/10 0/10

VIRUCIDAL PERFORMANCE:

This product kills the following viruses in 10 minutes on hard, non-porous surfaces with 5% soil:

Organism	Carrier Population (Log ₁₀)	Log Reduction (Log ₁₀)
Avian Influenza A Virus (H5N1) CDC #2006719965	4.75	≥4.25 ≥4.25
Avian influenza A (H5N2) Virus (NVSL)	4.50	≥4.00 ≥4.00
Hantavirus (PHV) Univ. of New Mexico	7.00	≥3.50 ≥3.50
Hepatitis A Virus (HAV) HM-175	6.25	5.00 ≥5.75
Hepatitis B Virus (HBV) Duck Hepatitis B Virus	5.14	≥4.64 ≥4.64
Hepatitis C Virus (HCV) ATCC VR-1422	4.64	≥4.14 ≥4.14
Herpes Simplex Type 1 Virus ATCC VR-733	6.00	≥5.50 ≥5.50
Herpes Simplex Type 2 Virus ATCC VR-734	4.50	≥4.00 ≥4.00
Human Coronavirus ATCC VR-740	5.00	≥3.50 ≥3.50
Human Immunodeficiency Virus Type 1* (HIV-1) (AIDS Virus)	5.50	≥4.00 ≥4.00
Influenza A Virus (H3N2) ATCC VR-544	6.75	≥6.25 ≥6.25
Influenza A Virus (H1N1) ATCC VR-1469	6.25	≥5.75 ≥5.75
Respiratory Syncytial Virus ATCC VR-26	4.75	≥3.25 ≥3.25
**SARS-CoV-2 USA-WA1/2020 (COVID-19 virus) (2019-nCoV)	5.75	≥5.25 ≥5.25 ≥5.25
Vaccinia Virus ATCC VR-119	5.00	≥4.50 ≥4.50

*Indicates a 2-minute contact time is required for this claim.

**Indicates a 1-minute contact time is required for this claim.

ANIMAL PREMISE VIRUCIDAL PERFORMANCE:

This product kills the following viruses in 10 minutes on hard, non-porous surfaces with 5% soil:

Organism	Carrier Population (Log ₁₀)	Log Reduction (Log ₁₀)
Avian Influenza A Virus (H5N1) CDC #2006719965	4.75	≥4.25 ≥4.25
Avian influenza A (H5N2) Virus (NVSL)	4.50	≥4.00 ≥4.00
Canine Coronavirus ATCC VR-809	5.00	≥4.50 ≥4.50
Canine Distemper Virus ATCC VR-128	5.50	≥5.00 ≥5.00
Infectious Bovine Rhinotracheitis Virus ATCC VR-188	4.50	≥4.00 ≥4.00
Newcastle disease Virus LaSota	6.75	≥3.25 ≥3.25
Porcine Respiratory & Reproductive Virus	5.50	≥5.00 ≥5.00
Porcine Rotavirus ATCC VR-893	5.75	≥5.25 ≥5.25
Pseudorabies Virus ATCC VR-135	5.00	≥4.50 ≥4.50
Transmissible Gastroenteritis Virus (TGE) Univ. of Minnesota	6.00	≥4.50 ≥4.50

MILDEWSTATIC PERFORMANCE:

This product controls the following mold for 7 days on hard, non-porous surfaces with 5% soil:

Organism	Tile	Untreated (% Covered)	7 Days Post Treatment (% Covered)
<i>Aspergillus niger</i> ATCC 6275	1	65	0/0
	2	75	0/0
	3	70	0/0
	4	75	0/0
	5	80	0/0
	6	90	0/0
	7	75	0/0
	8	95	0/0
	9	80	0/0
	10	75	0/0

NON-FOOD CONTACT SANITIZING PERFORMANCE:

This product is an effective one-step sanitizer in 3 minutes on hard, non-porous surfaces with 5% soil:

Organism	Carrier Population (Log ₁₀)	Log Reduction (Log ₁₀)
<i>Enterobacter aerogenes</i> ATCC 13048	6.34	>4.94
	6.38	>4.98
	6.57	>5.17
<i>Klebsiella pneumoniae</i> ATCC 4352	6.60	>5.20
	6.64	>4.59
	6.46	>4.06
<i>Staphylococcus aureus</i> ATCC 6538	6.09	>4.69
	6.35	>3.95
	5.96	>3.56

FUNGICIDAL PERFORMANCE:

This product kills the following fungi in 10 minutes on hard, non-porous surfaces with 5% soil:

Organism	Inoculum Density (Log ₁₀)	Growth (5 min)	Growth (10 min)	Growth (15 min)
<i>Trichophyton interdigitale</i> ATCC 9533	8.08	0	0	0
<i>Candida albicans</i> ATCC 10231	7.08	0	0	0