

ONE PACKS

Dispenser-Free Control Systems®

Mark 11 - Efficacy Summary

pH Neutral Disinfectant, Non-Food Contact Sanitizer, Cleaner, Mildewstat, Fungicide, Virucide*, and Deodorizer



Mark 11
ST-740, 0.5 oz pack

ST-No.	Case UPC No. Mfg. No. 071206	Each UPC No. Mfg. No. 071206	Case Size	Case Weight	Cases/Pallet	Yield
ST-735	009043	N/A	72 x 2 fl. oz. packs	11 pounds	75	1 gallon
ST-738	007384	N/A	36 x 4 fl. oz. packs	11 pounds	75	2 gallons
ST-740	009951	N/A	144 x 0.5 fl. oz. packs	6 pounds	75	1 quart
ST-740E	274007	027405	10 x 10 x 0.5 fl. oz. packs	7 pounds	64	1 quart
ST-1375	013750	N/A	25 x 0.5 fl. oz. packs w/bottle	1.75 pounds	162	1 quart
ST-747	008916	N/A	10 x 10 fl. oz. packs	8 pounds	100	5 gallons
ST-2020	202000	320209	4 x 1 gallon case	37 pounds	48	1/2 oz. per quart
ST-9950	009180	N/A	12 x 32 oz empty spray bottles			

Hospital Disinfection (at 2 ounces per gallon)

This product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum and 400ppm hard water at 2 ounces of this product per gallon of water (660 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
<i>Pseudomonas aeruginosa</i> ATCC #15442	3.9 X 10 ⁴ CFU/Carrier	A (60 Days Old)	60	0/60
		B	60	0/60
		C	60	1/60
<i>Salmonella enterica</i> ATCC #10708	1.03 X 10 ⁶ CFU/Carrier	A (60 Days Old)	60	1/60
		B	60	1/60
		C	60	0/60
<i>Staphylococcus aureus</i> ATCC #6538	7.0 X 10 ⁴ 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).)

Organism	CARRIER POPULATION	SAMPLE	# CARRIERS	# POSITIVE
<i>Acinetobacter baumannii</i> ATCC 19003	15.1 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Acinetobacter Iwoffii</i> ATCC 15309	5.7 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Acinetobacter Iwoffii</i> ATCC 9957	4.0 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Bordetella bronchiseptica</i> ATCC 10580	9.4 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Citrobacter freundii</i> ATCC 8090	3.9 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterobacter aerogenes</i> ATCC 13048	2.35 X 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterobacter agglomerans</i> ATCC 27155	3.9 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterobacter cloacae</i> ATCC 13047	3.3 X 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterococcus faecalis</i> ATCC 19433	6.2 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterococcus faecalis</i> Vancomycin Resistant (VRE) ATCC 51299	1.3 X 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterococcus hirae</i> ATCC 10541	1.19 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Escherichia coli</i> ATCC 11229	1.3 X 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10

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Organism	CARRIER POPULATION	SAMPLE	# CARRIERS	# POSITIVE
<i>Escherichia coli</i> Spectrum B-Lactamase (ESBL) ATCC BAA-196	4.6 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Escherichia coli</i> O111:H8 ATCC BAA-184	4.3 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Escherichia coli</i> Tetracycline Resistant ATCC 47041	3.1 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Fusobacterium necrophorum</i> ATCC 27852	5.8 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Klebsiella oxytoca</i> ATCC 13182	1.07 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Klebsiella pneumoniae</i> ATCC 13883	1.2 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Listeria monocytogenes</i> ATCC 19117	7.7 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Micrococcus luteus</i> ATCC 14452	1.1 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Micrococcus luteus</i> ATCC 4698	4.8 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Pasturella multocida</i> ATCC 12947	1.32 X 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Proteus vulgaris</i> ATCC 13315	1.9 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Proteus vulgaris</i> ATCC 9920	1.24 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Pseudomonas aeruginosa</i> Tetracycline Resistant ATCC 27853	3.5 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Pseudomonas cepacia</i> ATCC 25416	1.63 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Salmonella enterica</i> ATCC 23564	9.2 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Salmonella enterica</i> ATCC 4931	1.3 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Salmonella enterica</i> serotype pullorum ATCC 19945	7.1 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Salmonella typhi</i> ATCC 6539	8.3 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Salmonella typhimurium</i> ATCC 23564	1.5 X 10 ⁵ CFU/Carrier	A	10	0/10
	5.6 X 10 ⁵ CFU/Carrier	B	10	0/10
<i>Serratia marcescens</i> ATCC 14756	6.2 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Serratia marcescens</i> ATCC 9103	6.0 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Shigella flexneri</i> ATCC 12022	2.6 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Shigella flexneri</i> ATCC 9380	1.99 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Shigella sonnei</i> ATCC 25931	1.04 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> ATCC 14154	9.2 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> ATCC 25923	6.6 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> sub species aureus ATCC 33586	7.2 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> Methicillin Resistant (MRSA) ATCC 33592	5.4 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> Community Associated Methicillin Resistant (CA-MRSA)	6.3 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> Community Associated Methicillin Resistant (CA-MRSA) (NARSA NRS384) Genotype USA 300)	1.60 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> Vancomycin Intermediate Resistant (VISA) ATCC 5836	3.2 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus epidermidis</i> ATCC 14990	1.56 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus epidermidis</i> Antibiotic resistant ATCC 51625	8.6 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus haemolyticus</i> ATCC 29970	9.5 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Streptococcus agalactiae</i> ATCC 13813	5.6 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Streptococcus mutans</i> ATCC 25175	1.02 X 10 ⁶ CFU/Carrier	A	10	0/10
	1.3 X 10 ⁴ CFU/Carrier	B	10	0/10
<i>Streptococcus pneumoniae</i> Penicillin Resistant ATCC 51915	9.6 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Streptococcus pyogenes</i> ATCC 19615	4.7 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Vibrio cholera</i> ATCC 11623	1.0 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Yersinia enterocolitica</i> ATCC 23715	1.2 X 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10

Virucidal against (at 2 ounces per gallon)

This product was evaluated in the presence of 5% serum and 400 ppm hard water 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.) (3 lots and 4-Log reduction for Canada).

Organism	DRIED VIRUS CONTROL	SAMPLE	RESULT	LOG REDUCTION
Avian Infectious Bronchitis virus Beaudette IB42	6.42 Log ₁₀	A	≤0.5 Log ₁₀	≥5.92 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.92 Log ₁₀
	6.5 Log ₁₀	C	≤0.5 Log ₁₀	≥6.0 Log ₁₀
Avian Influenza A (H3N2) virus (Avian Reassortant) (ATCC VR-2072)	4.75 Log ₁₀	A	≤0.5 Log ₁₀	≥4.25 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.25 Log ₁₀
		C	≤0.5 Log ₁₀	≥4.25 Log ₁₀
Avian Influenza A (H5N1) virus	6.75 Log ₁₀	A	≤0.5 Log ₁₀	≥6.25 Log ₁₀
		B	≤0.5 Log ₁₀	≥6.25 Log ₁₀
Canine Coronavirus ATCC VR-809	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
	4.75 Log ₁₀	C	≤0.5 Log ₁₀	≥4.25 Log ₁₀
Canine Distemper virus ATCC VR-128	6.25 Log ₁₀	A	≤0.5 Log ₁₀	≥5.75 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.75 Log ₁₀
	6.75 Log ₁₀	C	≤0.5 Log ₁₀	≥6.25 Log ₁₀
<i>Chlamydia psittaci</i> ATCC VR-125	7.25 Log ₁₀	A	≤0.5 Log ₁₀	≥6.75 Log ₁₀
		B	≤0.5 Log ₁₀	≥6.75 Log ₁₀
	4.75 Log ₁₀	C	≤0.5 Log ₁₀	≥4.25 Log ₁₀
Cytomegalovirus ATCC VR-538	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		C	≤0.5 Log ₁₀	≥4.0 Log ₁₀
Feline Picornavirus ATCC VR-649	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
	5.75 Log ₁₀	C	≤0.5 Log ₁₀	≥5.25 Log ₁₀
Hantavirus (PHV)	6.23 Log ₁₀	A	≤1.5 Log ₁₀	≥4.73 Log ₁₀
		B	≤1.5 Log ₁₀	≥4.73 Log ₁₀
Hepatitis B Virus	5.06 Log ₁₀	A	0.27 Log ₁₀	4.79 Log ₁₀
	5.20 Log ₁₀	B	0.41 Log ₁₀	4.79 Log ₁₀
	5.06 Log ₁₀	Confirmatory B	0.27 Log ₁₀	4.79 Log ₁₀
Hepatitis C Virus	6.21 Log ₁₀	A	0.24 Log ₁₀	5.97 Log ₁₀
	6.21 Log ₁₀	B	0.42 Log ₁₀	5.79 Log ₁₀
	6.06 Log ₁₀	Confirmatory B	0.13 Log ₁₀	5.93 Log ₁₀
Herpes Simplex Virus Type 1 ATCC VR-773	5.5 Log ₁₀	A	≤0.5 Log ₁₀	≥5.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.0 Log ₁₀
	6.0 Log ₁₀	C	≤0.5 Log ₁₀	≥5.5 Log ₁₀
Herpes Simplex Virus Type 2 ATCC VR-734	6.0 Log ₁₀	A	≤0.5 Log ₁₀	≥5.5 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.5 Log ₁₀
	5.75 Log ₁₀	C	≤0.5 Log ₁₀	≥5.25 Log ₁₀
Human Coronavirus ATCC VR-740	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
	4.5 Log ₁₀	C	≤0.5 Log ₁₀	≥4.0 Log ₁₀
Human Immunodeficiency Virus type 1 (HIV 1) HTLV-III _s	5.75 Log ₁₀	A	≤1.5 Log ₁₀	≤4.25 Log ₁₀
		B	≤1.5 Log ₁₀	≤4.25 Log ₁₀
		C	≤1.5 Log ₁₀	≤4.25 Log ₁₀
Infectious Bovine Rhinotracheitis virus ATCC VR-188	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≤4.0 Log ₁₀
		B	≤0.5 Log ₁₀	≤4.0 Log ₁₀
	4.75 Log ₁₀	C	≤0.5 Log ₁₀	≤4.25 Log ₁₀
Influenza A virus ATCC VR-544	6.5 Log ₁₀	A	≤0.5 Log ₁₀	≤6.0 Log ₁₀
		B	≤0.5 Log ₁₀	≤6.0 Log ₁₀
	6.0 Log ₁₀	C	≤0.5 Log ₁₀	≤5.5 Log ₁₀
Influenza A (H1N1) virus ATCC VR-1469	5.5 Log ₁₀	A	≤0.5 Log ₁₀	≥5.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.0 Log ₁₀
Pseudorabies virus ATCC VR-135	6.25 Log ₁₀	A	≤0.5 Log ₁₀	≥5.75 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.75 Log ₁₀
	5.5 Log ₁₀	C	≤0.5 Log ₁₀	≥5.0 Log ₁₀
Respiratory syncytial virus ATCC VR-26	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
	5.0 Log ₁₀	C	≤0.5 Log ₁₀	≥4.5 Log ₁₀
SARS Associated Coronavirus	6.5 Log ₁₀		≤3.5 Log ₁₀	≥3.0 Log ₁₀
			≤3.5 Log ₁₀	≥3.0 Log ₁₀
Swine Influenza A (H1N1) Virus ATCC VR-333	5.5 Log ₁₀	A	≤0.5 Log ₁₀	≥5.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.0 Log ₁₀
Transmissible Gastroenteritis virus	4.75 Log ₁₀	A	≤0.5 Log ₁₀	≤4.25 Log ₁₀
		B	≤0.5 Log ₁₀	≤4.25 Log ₁₀
	6.25 Log ₁₀	C	≤0.5 Log ₁₀	≤5.75 Log ₁₀
Vaccinia virus ATCC VR-119	6.75 Log ₁₀	A	≤0.5 Log ₁₀	≤6.25 Log ₁₀
		B	≤0.5 Log ₁₀	≤6.25 Log ₁₀
	6.5 Log ₁₀	C	≤0.5 Log ₁₀	≤6.0 Log ₁₀

Virucidal against (at 8 ounces per gallon)

This product was evaluated in the presence of 5% serum and 400 ppm hard water 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.) (3 lots and 4-Log reduction for Canada).

Organism	DRIED VIRUS CONTROL	SAMPLE	RESULT	LOG REDUCTION
Canine Parvovirus Type 2b, Nike Strain	7.5 Log ₁₀	A	≤3.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤3.5 Log ₁₀	≥4.0 Log ₁₀
Rabies Virus	5.75 Log ₁₀	A	≤2.5 Log ₁₀	≥3.25 Log ₁₀
		B	≤2.5 Log ₁₀	≥3.25 Log ₁₀

Fungicidal against (at 2 ounces per gallon)

This product was evaluated in the presence of 5% serum and 400 ppm hard water 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	DRIED VIRUS CONTROL	SAMPLE	RESULT	LOG REDUCTION
Candida albicans ATCC #10231	1.57 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
Trichophyton mentagrophytes ATCC #9533	1.10 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10

Mold and Mildew Control (at 2 ounces per gallon)

Use this product to control the growth of mold and mildew and their odors on hard, nonporous surfaces. Thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappears.

	TILE NUMBER	UNTREATED AFTER 7 DAYS	SAMPLE A AFTER 7 DAYS	SAMPLE B AFTER 7 DAYS
Aspergillus niger ATCC #16404	1	Growth 90%	No Growth 0%	No Growth 0%
	2	Growth 70%	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 90%	No Growth 0%	No Growth 0%
	7	Growth 80%	No Growth 0%	No Growth 0%
	8	Growth 70%	No Growth 0%	No Growth 0%
	9	Growth 90%	No Growth 0%	No Growth 0%
	10	Growth 70%	No Growth 0%	No Growth 0%

Non-Food Contact Surface Sanitizer

Add 2 ounces of this product to 1 gallon of water to sanitize hard porous and nonporous non-food contact surfaces. Treated surfaces must remain wet for 3 minutes. Then wipe with sponge, mop or cloth or allow to air dry. At this dilution food contact surfaces must be rinsed. Testing is performed per EPA Guidance (DIS/TSS-10). Three lots are required, one of which must be > 60 days old. Testing is performed against Staphylococcus aureus and Klebsiella pneumoniae containing 5% organic load. Enterobacter aerogenes may be substituted for Klebsiella pneumoniae. The results must show a reduction of at least 99.9% (3 Log10) in the number of each test microorganism over the parallel control count within 5 minutes.

	CARRIER POPULATION	SAMPLE	3 MINUTE KILL CFU/CARRIER	PERCENT KILL
Klebsiella pneumoniae ATCC 4352	6.04 Log ₁₀	A (60 Days Old)	3.56 Log ₁₀	>99.9
		B	3.56 Log ₁₀	>99.9
		C	3.56 Log ₁₀	>99.9
Staphylococcus aureus ATCC #6538	6.69 Log ₁₀	A (60 Days Old)	5.21 Log ₁₀	>99.9
		B	4.82 Log ₁₀	>99.9
		C	5.21 Log ₁₀	>99.9

MARK 11 is a phosphate free, pH neutral formulation designed to provide effective cleaning, deodorizing and disinfection in hospitals, nursing homes, schools, food establishments, factories, office buildings, hotels, motels, transportation terminals, athletic and recreational facilities, where housekeeping is of prime importance in controlling the hazard of cross contamination on treated surfaces. MARK 11 has been formulated to aid in the reduction of cross-contamination on treated surfaces not only in hospitals, but also in schools, institutions and industry. MARK 11 cleans, shines, deodorizes and disinfects all hard non-porous surfaces listed on the label: floors, washable walls, sinks, countertops, toilet bowls, tables, chairs and telephones. It inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling.

A quaternary based formulation. When used on environmental, inanimate, hard surfaces at 0.5 ounce per quart of water, provides broad spectrum kill against all organisms listed in the charts on the preceding pages. Use 1/2 ounce per quart of water for 850 ppm disinfectant concentration.

Directions

It is a violation of Federal Law to use MARK 11 in a manner inconsistent with its labeling.

MARK 11 is not for use on medical device surfaces. MARK 11 is not for use to disinfect, sanitize or clean eating equipment, glassware or dishware.

DISINFECTION PREPARATION OF USE SOLUTION: For water hardness up to 200 ppm to disinfect hard, non-porous surfaces mix a 1/2-ounce packet with 1 quart of water. Treated surfaces must remain wet for 10 minutes.

Disinfection/Fungicidal*/Virucidal Directions: Apply use solution to hard inanimate, non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge or sprayer. For sprayer applications use a coarse spray device. Spray 6-8 inches from surface and rub with brush, sponge or cloth. Do not breathe spray.

Add 1/2 ounce per quart (16 milliliters per liter) of water to disinfect hard, non-porous surfaces. Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution at least daily or when use dilution becomes diluted or soiled.

Non-Acid Toilet Bowl and Urinal Disinfection/Cleaner Directions: Remove gross filth prior to disinfection.

From use solution: Empty toilet bowl or urinal and apply 1/2 ounce per quart (16 milliliters per liter) use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, brush or swab thoroughly and allow to stand for 10 minutes and flush.

Chemical Characteristics

- Abrasive..... no
- Appearance..... red liquid
- Biodegradable..... yes
- Fragrance fresh scent
- Non-Acid yes
- Non-Butyl yes
- Non-Flammable yes
- Non-Toxic no
- NSF Certified..... D2
- pH (concentrate)..... 7.0-8.0
- (use dilution (1:64))..... 7.0-8.0
- Phosphate-Free yes
- Sara 313 notification required no
- VOC Compliant..... yes

Active Ingredients

- ACTIVE INGREDIENTS:**
- Didecyl Dimethyl Ammonium Chloride..... 2.535%
 - n-Alkyl (C14 50%, C12 40%, C16 10%).....
 - dimethyl benzyl ammonium chloride..... 1.690%
- INERT INGREDIENTS:..... 95.775%**
- TOTAL: 100.000%**

EPA Reg. No. 10324-154-3640
EPA Est. No. 3640-WI-1



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