

Powdered Detergent/Disinfectant

Cleaner, Disinfectant, Detergent, Deodorizer, *Virucide,
Fungicide (against pathogenic fungi), Mildewstat (on hard inanimate surfaces)
Kills Pandemic 2009 H1N1 Influenza A Virus (formerly called swine flu)

EPA Reg. No. 1839-93-3640

EFFICACY SUMMARY



ST-No.	New Item #	Case UPC No. Mfg. No. 071206	Each UPC No. Mfg. No. 071206	Case Size	Case Weight	Cases /Pallet	Yield
ST-690	#2706902	106902	206909	4 x 125 x 3.5 g	5.25 pounds	150	500 Quarts
ST-691	#2706919	106919	206909	1 x 125 x 3.5 g w/bottle	2 pounds	154	125 Quarts
	#2717643	317643	176400	4 x 40 x 3.5 g w/bottle	1.23 pounds	144	160 Quarts
ST-9690	#2969002	969002	N/A	12 x 32 oz. empty silk-screened bottles	3.5 pounds	40	N/A

Disinfection

Contact Time: 10 minutes

Exposure Temperature: 20° C

Water Conditions: Deionized

Organic Soil: 5% blood serum

Dilution/Concentration: 3.5 g / quart

Substrates: Stainless steel

Test Method Official Method of the AOAC, Use-Dilution Method (UDM)

Organism	Sample	Number of Carriers		Phenol Resistance			
		Exposed	Positive	Dilution	Exposure Time (min.) vs. Growth		
					5	10	15
Brevibacterium ammoniagenes ATCC 6871	A	10	0	1:110	+	0	0
	B	10	0	1:120	+	+	+
Enterobacter aerogenes ATCC 13048	A	10	0	1:90	+	0	0
	B	10	0	1:100	+	+	+
Escherichia coli ATCC 11229	A	10	0	1:90	+	0	0
	B	10	0	1:100	+	+	0
Klebsiella pneumoniae ATCC 4352	A	10	0	1:60	+	0	0
	B	10	0	1:70	+	+	+
Pseudomonas aeruginosa PRD-10 ATCC 15442	A	60	1	1:80	+	0	0
	B	60	1	1:90	+	+	+
	C	60	0	--	--	--	--
Salmonella (choleraesuis) enterica ATCC 10708	A	60	0	1:90	+	0	0
	B	60	0	1:100	+	+	+
	C	60	0	--	--	--	--
Salmonella (schottmuelleri) enterica ATCC 8759	A	10	0	1:80	+	0	0
	B	10	0	1:90	+	+	+
Shigella dysenteriae ATCC 12180	A	10	0	1:90	+	0	0
	B	10	0	1:100	+	+	+
Staphylococcus aureus ATCC 6538	A	60	0	1:60	+	0	0
	B	60	0	1:70	+	+	+
	C	60	0	--	--	--	--
Streptococcus faecalis ATCC 10541	A	10	0	1:60	+	0	0
	B	10	0	1:70	+	+	+

Conclusion:

Under the conditions of these investigations, Quart'r Packs® Powdered Detergent/Disinfectant demonstrated disinfectant activity against *Brevibacterium ammoniagenes*, *Enterobacter aerogenes*, *Escheria coli*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*, *Salmonella (choleraesuis) enterica*, *Salmonella (schottmuelleri) enterica*, *Shigella dysenteriae*, *Staphylococcus aureus*, and *Streptococcus faecalis* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

Virucidal

Contact Time: 10 minutes

Water Conditions: Deionized

Organic Soil: Load glass petri dish substrates **Dilution/Concentration:** 3.5 g / quart

Test Method US EPA Pesticide Assessment Guidelines, Subdivision G: Product Performance, 192, Section 91-30, pp. 72-76

Organism	Sample	Log Reduction (Log ₁₀)
Canine distemper ATCC VR-128	A	≥ 4.0
	B	≥ 4.0
Feline pneumonitis ATCC VR-120	A	≥ 4.0
	B	≥ 4.0
Hepatitis B Virus (HBV)	A	≥ 3.17
	B	≥ 3.17
Hepatitis C Virus (HCV)	A	≥ 3.06
	B	≥ 3.06
Herpes Simplex Type 1 ATCC VR-260	A	≥ 4.0
	B	≥ 4.0
Human Immunodeficiency Virus, HTLV-III _{RF} strain of HIV-1 (associated with AIDS)	A	≥ 3.0
	B	≥ 3.0
Influenza A ₂	A	≥ 5.3
	B	≥ 5.3
Pandemic 2009 H1N1 Influenza A Virus (Refer to NOTE below)		
Parainfluenza Type 1 (Sendai) ATCC VR-105	A	≥ 4.0
	B	≥ 4.0
Vaccinia ATCC VR-156	A	≥ 3.0
	B	≥ 3.0

Conclusion:

Under the conditions of these investigation, **Quart'r Packs® Powdered Detergent/Disinfectant** was virucidal for *Canine distemper*, *Feline pneumonitis*, *Human Immunodeficiency Virus (HIV)*, *Hepatitis B Virus (HBV)*, *Hepatitis C Virus (HCV)*, *Herpes Simplex 1*, *Influenza A2*, *Pandemic 2009 H1N1 Influenza A Virus*, *Parainfluenza Type 1 (Sendai)*, and *Vaccinia* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

NOTE: Per the EPA guidance document dated October 21, 2009, disinfectant products that bear label claims against human, avian, or swine influenza A virus, and have submitted and received approval of efficacy data to support these label claims, may include a label claim against the Pandemic 2009 H1N1 Influenza A Virus.

Fungicidal

Exposure Temperature: 20° C

Water Conditions: Deionized

Organic Soil: 5% sterile blood serum

Test Method Official Method of the AOAC, Use-Dilution Method (UDM)

Dilution/Concentration: 3.5 g / quart

Organism	Sample	Number of Carriers		Phenol Resistance			
		Exposed	Positive	Dilution	Exposure Time (min.) vs. Growth		
					5	10	15
Tricophyton mentagrophytes ATCC 9533	A	10	0	1:60	+	0	0
	B	10	0	1:70	+	+	+

Conclusion:

Under the conditions of these investigation, **Quart'r Packs® Powdered Detergent/Disinfectant** was fungicidal for *Tricophyton mentagrophytes* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungicide.

Mildew Fungistatic

Water Conditions: Deionized

Dilution/Concentration: 3.5 g / quart

Substrates: Tile

Test Method Hard Surface Mildew Fungistatic

Organism	Sample	Number of Exposed Tiles	Number of Tiles Showing Growth
Aspergillus niger ATCC 6275	A	10	0
	B	10	0
	Control	10	10

Conclusion:

Under the conditions of these investigation, **Quart'r Packs® Powdered Detergent/Disinfectant** 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.

Stearns Quart'r Packs® Powdered Detergent/Disinfectant is a premeasured, phosphate-free, dual quaternary detergent/disinfectant concentrate that cleans and deodorizes in one step. It provides the disinfection strength sought by infection control management in hospitals, nursing homes, and other health care facilities where housekeeping is of prime importance. Quart'r Packs® Powdered Detergent/Disinfectant controls the hazards of cross-contamination.

When used at the use dilution of 3.5 g per quart of water, Quart'r Packs® Powdered Detergent/Disinfectant will disinfect hard surfaces such as tables, chairs, walls, floors and sink tops. For larger areas, such as operating rooms, patient care facilities, and restrooms, Quart'r Packs® Powdered Detergent/Disinfectant provides general cleaning and disinfection.

Deodorizing diaper bins, garbage pails, and other refuse storage areas is easy since Quart'r Packs® Powdered Detergent/Disinfectant eliminates odors caused by microorganisms and controls the growth of mold and mildew. The formula's unique odor counteractant system has time-proven capabilities in controlling odors.

Quart'r Packs® Powdered Detergent/Disinfectant provides antimicrobial activity and professional strength cleaning. Quart'r Packs® Powdered Detergent/Disinfectant has been tested according to the Association of Official Analytical Chemists (AOAC) Use-Dilution Method. This testing protocol confirms broad-spectrum antimicrobial activity against gram positive and gram negative bacteria, pathogenic fungi, and viruses required by the United States Environmental Protection Agency (US EPA).

Of prime concern in today's health care environment is eliminating the risk of exposure to the HIV-1 virus that causes AIDS, Hepatitis B Virus (HBV), and Hepatitis C Virus (HCV). Quart'r Packs® Powdered Detergent/Disinfectant kills HIV-1 on pre-cleaned environmental surfaces and objects previously soiled with blood or body fluids. This minimizes the risks of transmission of HIV-1 since Quart'r Packs® Powdered Detergent/Disinfectant has been laboratory-proven effective as a virucide, fungicide, and bactericide even in the presence of organic soil (5% blood serum).

Stearns Quart'r Packs® Powdered Detergent/Disinfectant suspends and emulsifies even hardened and dried-on soils without redeposition. The powerful detergent of Quart'r Packs® Powdered Detergent/Disinfectant removes the soil residues that might otherwise inhibit the disinfection process. This potent combination of detergency and disinfection power protects your staff and patients from the spread of disease. However, a two-step cleaning process is required where blood or body fluids are present.

Quart'r Packs® Powdered Detergent/Disinfectant will not damage tile, grouted floors, or most painted surfaces.

Cleans, disinfects, and deodorizes in a single step. Kills HIV-1 (AIDS virus), Hepatitis B, Hepatitis C, Influenza A viruses including pandemic 2009 H1N1 Influenza A virus, E. coli, Salmonella choleraesuis, and many other pathogens on hard, inanimate surfaces. Fungicidal against Tricophyton Mentagrophytes (Athlete's Foot Fungus). Fresh lemon fragrance. EPA registered. Designed specifically for hospitals, nursing homes, and other institutions.

Directions

Add one (3.5 g) premeasured packet per quart of water. Powdered Detergent/Disinfectant is EPA registered as a disinfectant. This product has demonstrated efficacy against a variety of microorganisms including Pseudomonas aeruginosa PRD-10, Escherichia coli, Klebsiella pneumoniae, Salmonella schottmuelleri, Salmonella choleraesuis, Brevibacterium ammoniagenes, Streptococcus faecalis, Shigella dysenteriae, Staphylococcus aureus, Enterobacter aerogenes, Trichophyton mentagrophytes, and HIV-1. As an EPA registered disinfectant, it is a violation of federal law to use this product in a manner inconsistent with its labeling.

See actual container label for complete EPA information.

Caution

Do not handle packets with wet hands. Do not remove packets from container until just prior to use. Humidity and water will destroy the packet integrity.

Chemical Characteristics

Appearance	Pink Powder
Biodegradable	Yes
California Compliant	Yes
Corrosive Category (Powder)	Yes
Corrosive Category (Use Dilution)	No
DEA-Free	Yes
Fragrance	Lemon
Non-Acid	Yes
Non-Butyl	Yes
Non-Flammable	Yes
NPE-Free	Yes
pH (Use Dilution)	8.5
Phosphate-Free	Yes
VOC	None

Active Ingredients

Alkyl (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₂ , 5% C ₁₈)	
Dimethyl Benzyl Ammonium Chlorides	7.95%
Alkyl (68% C ₁₂ , 32% C ₁₄)	
Dimethyl Ethylbenzyl Ammonium Chlorides ...	7.95%
INERT INGREDIENTS:	84.10%
TOTAL:	100.00%



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