Technical Data Bulletin

Super Sani-Cloth®
GERMICIDAL DISPOSABLE WIPE

EPA Reg. No. 9480-4

Product Description

Super **Sani-Cloth®** Germicidal Disposable Wipe is a premoistened nonwoven durable wipe containing a quaternary ammonium chloride/alcohol based solution. Recommended for use in hospitals and other critical care areas where the reduction of cross-contamination between treated surfaces is required. Designed to be compatible with hard nonporous surfaces and equipment made of plastic, Formica® laminate, glass and more. Some organisms are removed from the surface by thoroughly wiping the surface with the wipe. Most remaining organisms are killed within two (2) minutes by exposure to the liquid in the wipe.

Chemical Composition

Active Ingredients:

n-Alkyl (68% C_{12}, 32% C_{14}) dimethyl ethylbenzyl ammonium chlorides.....0.25%
n-Alkyl (60% C_{14}, 30% C_{16}, 5% C_{12}, 5% C_{18}) dimethyl benzyl ammonium chlorides.....0.25%
Isopropyl Alcohol.....55.00%
Other ingredients.....44.50%
TOTAL.....100.00%

Each cloth is saturated with 5,000 parts per million of active quaternary ammonium chlorides.

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Efficacy

Bacterial Organism Efficacy

Multi-Drug Resistant Bacteria:	*Acinetobacter baumannii* [ATCC 19606] *Enterobacter cloacae* NDM-1 positive [CDC 1000654] ESBL Producing *Escherichia coli* (*E. coli*) [ATCC BAA-196] *Klebsiella pneumoniae* KPC-2 positive, ST258 (multi-drug and carbapenem resistant) [CDC 2008030] Methicillin Resistant *Staphylococcus aureus* (MRSA) [ATCC 33592] Vancomycin Resistant *Enterococcus faecalis* (VRE) [ATCC 51299]
Test Method Used:	Modified AOAC Germicidal Spray Method for Hard Surface Disinfection
Organic Soil Load:	5% Horse Serum or 5% Fetal Bovine Serum
Exposure Time:	2 minutes at 68-77°F
Incubation:	48 hours +/- 2 hours at 95-98.6°F
Results:	No growth observed
Bacteria:	*Bordetella pertussis* [ATCC 12743] *Burkholderia cepacia* [ATCC 25416] *Campylobacter jejuni* [ATCC 29428] *Escherichia coli* (*E. coli*) [ATCC 11229] *Escherichia coli* O157:H7 [ATCC 35150] *Klebsiella pneumoniae* [ATCC 4352] *Pseudomonas aeruginosa* [ATCC 15442] *Salmonella enterica* [ATCC 10708] *Staphylococcus aureus* [ATCC 6538]
Test Method Used:	Modified AOAC Germicidal Spray Method for Hard Surface Disinfection
Organic Soil Load:	5% Horse Serum or 5% Fetal Bovine Serum
Exposure Time:	2 minutes at 66-77°F
Incubation:	48 hours +/- 2 hours to 6 days at 86-98.6°F
Results:	No growth observed
Mycobacterium Bovis - BCG (TB):	*Mycobacterium bovis* BCG (Tuberculosis) [ATCC 35743]
Test Method Used:	Quantitative Tuberculocidal Suspension Test
Organic Soil Load:	5% Horse Serum
Exposure Time:	1 minute at 68°F
Incubation:	21 days at 98.6°F
Results:	No growth observed

Viral Organism Efficacy

Enveloped Viruses:	Herpes Simplex type 2 [ATCC VR-734] Human Coronavirus [ATCC VR-740] Strain 229E Influenza A virus/H3N2 Strain [ATCC VR-544] Influenza A (H1N1) virus [ATCC VR-98] Strain A/Malaya/302/54 Measles virus [Strain: Edmonston] [ATCC VR-24] Vaccinia virus [ATCC VR-1354]
Test Method Used:	This test was conducted according to U.S. Environmental Protection Agency guidelines in effect at the time of test for determining the virucidal efficacy of disinfectants intended for use on dry inanimate surfaces.
Organic soil load:	5% fetal bovine serum.
Exposure Time:	2 minutes at 68°F
Results:	Virucidal according to the criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.
	Respiratory Syncytial virus (RSV)
Test Method Used:	This test was conducted according to U.S. Environmental Protection Agency guidelines in effect at the time of test for determining virucidal efficacy of disinfectants intended for use on dry inanimate surfaces.
Organic soil load:	5% fetal bovine serum.
Exposure Time:	2 minutes at room temperature (68°-77°F)
Results:	Virucidal against Respiratory Syncytial virus (RSV) according to the criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

Viral Organism Efficacy, cont.

Enveloped Viruses:	Severe Acute Repiratory Syndrome-Related Coronavirus 2 (SARS-CoV-2) (COVID-19 Virus) USA-WA1/2020
Test Method Used:	Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces
Organic Soil Load:	5% fetal bovine serum
Exposure Time:	2 minutes
Incubation:	7-10 days
Results:	Virucidal according to the criteria established by the U.S. Environmental Protection Agency guidelines in effect at the time of test for determining the virucidal efficacy of disinfectants intended for use on dry inanimate surfaces.

Efficacy

Viral Organism Efficacy

Non-enveloped viruses:	Adenovirus type 5 [ATCC VR-5] Feline Calicivirus (Surrogate for Human Norovirus) [ATCC VR-782] Rhinovirus [ATCC VR-1110] Rotavirus Strain WA
Test Method Used:	This test was conducted according to U.S. Environmental Protection Agency guidelines in effect at the time of test for determining the virucidal efficacy of disinfectants intended for use on dry inanimate surfaces.
Organic soil load:	5% fetal bovine serum.
Exposure Time:	2 minutes at 68ºF
Results:	Virucidal according to the criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.
Bloodborne Pathogens:	Hepatitis B virus (HBV) - Duck HBV Hepatitis C virus Human (HCV) - Bovine Diarrhea virus
Test Method Used:	This test was conducted according to U.S. Environmental Protection Agency guidelines in effect at the time of test for determining virucidal efficacy of disinfectants intended for use on dry inanimate surfaces.
Organic Soil Load:	Hepatitis B virus (HBV) 100% duck serum. Hepatitis C virus (HCV) 5% horse serum
Exposure Time:	2 minutes at room temperature (68°-77°F)
Results:	Virucidal against Hepatitis B and Hepatitis C virus according to the criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.
	HIV-1 (AIDS VIRUS)
Test Method Used:	This test was conducted according to U.S. Environmental Protection Agency guidelines in effect at the time for determining virucidal efficacy of disinfectants intended for use on dry inanimate surfaces.
Organic Soil Load:	5% Fetal Bovine Serum
Exposure Time:	2 minutes at 68°F
Results:	Virucidal against Human Immunodeficiency virus type 1 according to the criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

Pathogenic Fungi Efficacy

Yeast Organism:	*Candida albicans* [ATCC 14053]
Test Method Used:	Modified AOAC Germicidal Spray Method
Organic Soil Load:	5% Horse Serum
Exposure Time:	2 minutes at 72 - 74ºF
Incubation:	7 days at 95 - 98.6ºF
Results:	No growth observed
	Candida auris AR-BANK#0381 from CDC
Test Method Used:	OECD Quantitative Method for Evaluating the Efficacy of Liquid Antimicrobials against *Candida auris* on Hard, Non-Porous Surfaces, Wipes and Towelettes
Organic Soil Load:	5% Fetal Bovine Serum
Exposure Time:	2 minutes at 22 ± 2 °C
Incubation:	120 ± 4 hours at 29 - 31 °C
Results:	Met the performance criterion of a minimum reduction in viable cells of 5 Log_{10} in accordance with the U.S. EPA guidance for the Efficacy Evaluation of Products for Claims against *Candida auris*.

Pathogenic Fungi Efficacy, cont.

	Trichophyton interdigitale (Formerly known as Trichophyton mentagrophytes) [ATCC 9533]
Test Method Used:	Pre-Saturated Towelette Modified AOAC Fungicidal Germicidal Spray Test
Organic Soil Load:	5% fetal bovine serum
Exposure Time:	2 minute at 18-25°C
Incubation:	10 days at 36-38°C
Results:	No growth observed

Toxicity

Acute Inhalation
Based on the inhalation test results, Super **Sani-Cloth** Germicidal Disposable Wipe has been classified as Toxicity Category IV for acute inhalation.

Acute Oral Toxicity
Based on the results of this study, Super **Sani-Cloth** Germicidal Disposable Wipe has been classified as Toxicity Category IV for acute oral toxicity.

Acute Eye Irritation
Based on the results of this study, Super **Sani-Cloth** Germicidal Disposable Wipe produced eye irritation that indicates the product would be classified as Toxicity Category II for acute eye irritation.

Acute Dermal Toxicity
Based on the results of this study, Super **Sani-Cloth** Germicidal Disposable Wipe has been classified as Toxicity Category IV for dermal toxicity.

Acute Dermal Irritation
Based on the results of primary skin irritation study, Super **Sani-Cloth** Germicidal Disposable Wipe has been classified as Toxicity Category III for dermal effects.

Dermal Sensitization
Based on the sensitization test results, Super **Sani-Cloth** Germicidal Disposable Wipe would not be considered a dermal sensitizing agent.

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