

## 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/alcohol based solution. Recommended for use in hospitals and other critical care areas where the control of the hazards of cross-contamination between treated surfaces is required. Designed to be compatible with hard nonporous surfaces and equipment made of stainless steel, 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 <sub>12</sub> , 32% C <sub>14</sub> ) dimethyl ethylbenzyl ammonium chlorides.....                                      | 0.25%   |
| n-Alkyl (60% C <sub>14</sub> , 30% C <sub>16</sub> , 5% C <sub>12</sub> , 5% C <sub>18</sub> ) 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.

**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/Hong Kong Strain [ATCC VR-544]\*  
 \* Pandemic 2009 H1N1 Influenza A virus (Kill matrix included)  
 Influenza A (H1N1) virus [ATCC VR-98] Strain A/Malaya/302/54  
 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: 1 minute 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.

**EFFICACY**

**VIRAL ORGANISM EFFICACY**

**NON-ENVELOPED VIRUSES:**

Adenovirus type 5 [ATCC VR-5]  
 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 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.

**BLOODBORNE PATHOGENS:**

Hepatitis B virus (HBV) - Duck HBV  
 Hepatitis C virus (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: 30 seconds 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 - 74°F

Incubation: 7 days at 95 - 98.6°F

Results: No growth observed

**TOXICITY**

**ACUTE ORAL TOXICITY STUDY OF SUPER SANI-CLOTH GERMICIDAL DISPOSABLE WIPE**

**Conclusion:** A single-dose of Super Sani-Cloth Germicidal Disposable Wipe solution was administered and observed for 14 days. Based on the results of this study, Super Sani-Cloth Germicidal Disposable Wipe has an acute oral toxicity LD50 greater than 5 g/kg of body weight.

**PRIMARY EYE IRRITATION OF SUPER SANI-CLOTH GERMICIDAL DISPOSABLE WIPE**

**Conclusion:** All eye irritation cleared successfully within the respective timed observation period resulting in no permanent eye damage or irritation. In accordance with the OPPTS/OECD Guidelines, Super Sani-Cloth Germicidal Disposable Wipe would be classified as Toxicity Category II in unwashed eyes.

**ACUTE DERMAL TOXICITY OF SUPER SANI-CLOTH GERMICIDAL DISPOSABLE WIPE**

**Conclusion:** Following the single dermal administration, the subjects were observed for 14 days. Under the conditions of this test, the acute dermal LD50 was found to be greater than 2 g/kg of body weight.

**PRIMARY DERMAL IRRITATION OF SUPER SANI-CLOTH GERMICIDAL DISPOSABLE WIPE**

**Conclusion:** The subjects were exposed to the moist towelette with an occlusive wrap for a total of 72 hours. Under the conditions of this study, no dermal irritation was evident at 72 hours.

