



## PRODUCT DESCRIPTION

Sani-Hands® for Kids is a nonwoven towelette pre-saturated with an antibacterial cleansing solution containing an ingredient that reduces the risk of cross-contamination and infection. It also contains Aloe to moisturize the skin. Sani-Hands® for Kids does **not** require hands to be rinsed with water after use.

## CHEMICAL COMPOSITION

### 1. Active Ingredient:

Benzalkonium Chloride – 0.13% w/w

### 2. Inactive Ingredients:

Purified Water, SD Alcohol 40, Sorbic Acid, PPG-2 hydroxyethyl cocamide, Disodium EDTA, Aloe Barbadensis Leaf Juice, Fragrance

## EFFICACY

### IN-VITRO TIME KILL STUDIES

**Purpose** – To determine how rapidly and effectively Sani Professional® Brand Sani-Hands® for Kids killed a variety of Gram Positive and Gram Negative bacteria within a 15-second and 30-second exposure period.

**Methodology** – Fluid from the wipe was expressed aseptically and transferred to sterile tubes. The tubes were subsequently inoculated with the broth culture of each test microorganism containing up to  $10^8$  cfu/ml. After 15-second and 30-second intervals, the entire inoculated volume of Sani Professional® Brand Sani-Hands® for Kids liquid was transferred to neutralizers and incubated. Serial dilutions were plated using standard plating techniques, and percent reductions for each organism were calculated.



Test Organisms	% Log Reduction in Exposure Time	
	15 seconds	30 seconds
<b>Gram Positive Bacteria</b>		
<i>Listeria monocytogenes</i> ATCC 15313	> 99.999%	> 99.999%
<i>Staphylococcus aureus</i> ATCC 6538	> 99.9%	> 99.999%
<i>Staphylococcus epidermidis</i> ATCC 12228	> 99.999%	> 99.999%
Community Acquired Methicillin Resistant <i>Staphylococcus aureus</i> - (CA-MRSA) Genotype USA 300 (NARSA NRS 384)	99.9%	> 99.999%
Community Acquired Methicillin Resistant <i>Staphylococcus aureus</i> - (CA-MRSA) Genotype USA 400 (NARSA NRS 123)	> 99.9%	> 99.999%
Methicillin Resistant <i>Staphylococcus aureus</i> - (HA-MRSA) ATCC 33591	99.9%	> 99.99%
Vancomycin Resistant <i>Enterococcus faecalis</i> (VRE) - ATCC 51575	> 99.999%	> 99.999%
<i>Streptococcus pneumoniae</i> ATCC 6305	> 99.999%	> 99.999%
<i>Streptococcus pyogenes</i> ATCC 9342	99.999%	—
<b>Gram Negative Bacteria</b>		
<i>Campylobacter jejuni</i> ATCC 29428	> 99.99%	> 99.99%
<i>Escherichia coli</i> ATCC 11229	99.999%	—
<i>Pseudomonas aeruginosa</i> ATCC 15442	90%	99.9%
<i>Shigella sonnei</i> ATCC 25931	> 99.9%	> 99.999%
<b>Viruses</b>		
HIV Virus Type 1, Strain HTLV-III <sub>B</sub>	≥ 99.94%	—
2009-H1N1 Influenza A virus (Novel H1N1), Strain A/Mexico/4108/2009 CDC #2009712192	≥ 99.99%	—
Influenza A H1N1, ATCC VR-1469	> 99.9%	—
Rhinovirus type 16, Strain 11757, ATCC VR-283	≥ 99.4%	—

### VIRAL STUDIES\*

**Purpose** – To evaluate the antiviral properties of Sani Professional® Brand Sani-Hands® for Kids when exposed to four different virus strains (in suspension) for a 15-second exposure.

**Methodology** – Fluid from the wipe was expressed aseptically and transferred to sterile tubes. The tubes were subsequently inoculated with the virus suspension and held for the 15-second exposure period. After the exposure period, a small aliquot was removed and assayed for the presence of virus.

**Results** – A >99% reduction against each of the four viral titers following a 15-second exposure period.

### SAFETY

#### ACUTE DERMAL IRRITATION POTENTIAL

Sani Professional® Brand Sani-Hands® for Kids was evaluated to determine the dermal irritation potential following Acute Irritation Study protocol OPTTS 870.2500.

**Results** – Sani Professional® Brand Sani-Hands® for Kids resulted in a 0 index or non-irritant descriptive rating and is therefore classified as Toxicity Category IV for dermal effects.

#### ACUTE EYE IRRITATION POTENTIAL

Sani Professional® Brand Sani-Hands® for Kids was evaluated for eye irritation potential in accordance with Acute Eye Irritation Study protocol OPTTS/OECD Guidelines.

**Results** – Sani Professional® Brand Sani-Hands® for Kids resulted as causing moderate eye irritation and is therefore classified as Toxicity Category III for ocular effects.

\* The 1994 FDA Tentative Final Monograph does not comment on viral efficacy of hand hygiene products.



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