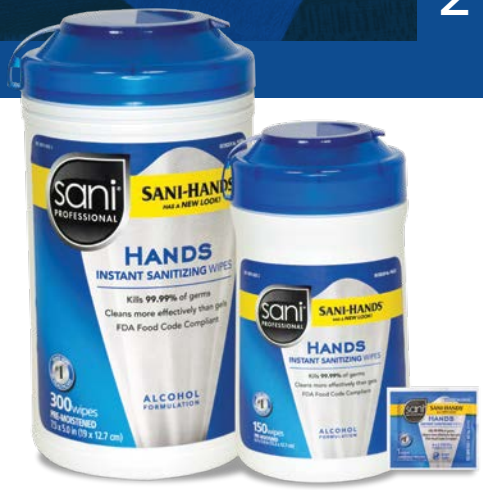
HANDS
Instant Sanitizing Wipes

TECH DATA BULLETIN



PRODUCT DESCRIPTION

Sani Professional® Hands Instant Sanitizing Wipes are nonwoven cloth saturated with an ethyl alcohol solution for the antimicrobial cleansing of hands. Solution and towel are fragrance free and dye free.

FIND IT IN OUR NEW, COLOR-CODED PACKAGE: "BLUE FOR HANDS".

CHEMICAL COMPOSITION/PRODUCT DATA:

Active Ingredients: Alcohol (Ethanol)	70% (by volume)
Inactive Ingredients: Water, Propylene glycol, Glycerin, Aloe barbadensis leaf juice, Tocopheryl acetate (Vitamin E)	30%
Total	**100.00%**

(Does not include weight of the wipe)

HANDS

EFFICACY STUDIES

IN-VITRO TIME KILL STUDIES

Bacterial Studies

Purpose – To determine how rapidly and effectively Sani Professional® Hands Instant Sanitizing Wipes killed a variety of Gram negative and Gram positive microorganisms after a 15-second exposure.

Methodology – Fluid from the wipe was expressed aseptically and transferred to sterile incubator tubes. The tubes were subsequently inoculated with the broth culture of each test microorganism containing up to 10^8 CFU/ml. After 15 seconds, the entire inoculated volume of Sani Professional® Hands Instant Sanitizing Wipes was transferred to neutralizers. Serial dilutions were plated using standard plating techniques and percent reductions for each organism were calculated after incubation.

Conclusion – Sani Professional® Hands Instant Sanitizing Wipes proved to be effective at killing all 30 microorganisms listed within a 15 second exposure.

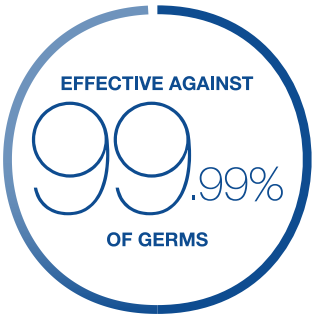
Independent Laboratory: Mycoscience Labs, Willington, CT: June 28, 2004

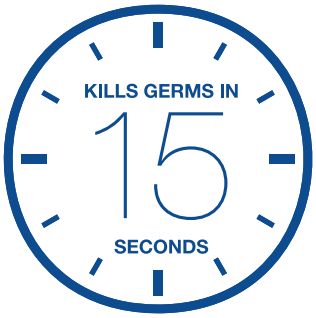
Chart 1: Percent Reduction After 15-Second Exposure

Microorganism	Classification	ATCC#	% Reduction
Acinetobacter baumanii, (multi-drug resistant)	Gram negative rod	19606	>99.999
Aspergillus flavus	fungi (mold)	9643	>99.992
Bacillus megaterium	Gram positive rod	14581	99.94
Campylobacter jejuni	Gram negative rod	29428	>99.999
Candida albicans	fungi (yeast)	14053	>99.999
Clostridium difficile (vegetative)	Gram positive rod	9689	>99.998
Community Acquired Methicillin Resistant Staphylococcus aureus (CA-MRSA) [NARSA NRS384] [Genotype USA 300]			>99.999
Community Acquired Methicillin Resistant Staphylococcus aureus (CA-MRSA) [NARSA NRS123] [Genotype USA 400]			>99.999
Corynebacterium diptheriae	Gram positive rod	11913	>99.999
Enterobacter aerogenes	Gram negative rod	13048	>99.999
Enterococcus faecium (multi-drug resistant including Vancomycin)	Gram positive cocci	51559	>99.999
Enterococcus faecalis (Vancomycin, Streptomycin, and Gentamicin resistant)	Gram positive cocci	51575	>99.999
Escherichia coli (ESBL producing, multi-drug resistant, derived from clinical isolate, Klebsiella pneumoniae ATCC #14714)	Gram negative rod	BAA-196	>99.999
Escherichia coli	Gram negative rod	11229	>99.999
Escherichia coli (0157:H7)	Gram negative rod	35150	>99.999
Escherichia coli (0111:H8)	Gram negative rod	BAA-184	>99.999
Klebsiella pneumoniae	Gram negative rod	13883	>99.99
Klebsiella pneumoniae (NDM-1 Positive) [CDC 1000527]			>99.999
Klebsiella pneumoniae (carbapenem resistant)	Gram negative rod	BAA-1705	>99.999
Listeria monocytogenes	Gram positive rod	15313	>99.999
Proteus mirabilis	Gram negative rod	7002	>99.999
Proteus hauseri (vulgaris)	Gram negative rod	13315	>99.999
Pseudomonas aeruginosa	Gram negative rod	15442	>99.999
Salmonella choleraesuis serotype typhimurium	Gram negative rod	14028	>99.999
Serratia marcescens	Gram negative rod	14756	>99.999
Shigella sonnei	Gram negative rod	11060	>99.999
Staphylococcus aureus (MRSA)	Gram positive cocci	33591	>99.999
Staphylococcus aureus (MRSA, Vancomycin tolerant)	Gram positive cocci	700788	>99.999
Staphylococcus epidermidis	Gram positive cocci	12228	>99.999
Streptococcus pneumoniae	Gram positive cocci	33400	>99.999
Streptococcus pyogenes	Gram positive cocci	19615	>99.999
Trichophyton mentagrophytes	fungi (mold)	9533	>99.993
Vibrio parahaemolyticus	Gram negative rod	17802	>99.999

Kills Top Foodborne Pathogens

Sani Professional® Hands Instant Sanitizing Wipes has been proven effective against the following foodborne pathogens:





BACTERIA & COMMON SYMPTOMS:	SOURCES:
Campylobacter jejuni* **ATCC# 29428** Diarrhea, abdominal cramps, fever, and vomiting; diarrhea may be bloody.	Raw or undercooked poultry, unpasteurized (raw) milk, contaminated drinking water
Escherichia coli (0157:H7)* **ATCC# 35150** ***Escherichia coli*(ESBL producing, multi-drug resistant, deriived from clinical isolate, Klebsiella pneumoniae ATCC#14714)*** **ATCC# BAA-196** ***Escherichia coli**** **ATCC# 11229** ***Escherichia coli (0111:H8)**** **ATCC# BAA-184** Severe diarrhea that is often bloody, severe abdominal pain, and vomiting	Undercooked ground beef, unpasteurized (raw) milk or juice, soft cheeses made from raw milk, and raw fruits and vegetables (such as sprouts)
Shigella sonnei* **ATCC# 11060** Diarrhea (often bloody), fever, and stomach cramps	Raw produce, contaminated drinking water, uncooked foods and cooked foods that are not reheated after contact with an infected food handler
Listeria monocytogenes* **ATCC# 15313** Fever, stiff neck, confusion, weakness, vomiting, sometimes preceded by diarrhea	Ready-to-eat deli meats and hot dogs; refrigerated pâtés or meat spreads; unpasteurized (raw) milk and dairy products; soft, unpasteurized cheeses (e.g., queso fresco, Feta, Brie, Camembert); refrigerated smoked seafood; raw sprouts
Salmonella choleraesius serotype typhimurium* **ATCC# 14028** Diarrhea, fever, abdominal cramps, vomiting	Eggs, poultry, meat, unpasteurized (raw) milk or juice, cheese, contaminated raw fruits and vegetables
Vibrio parahaemolyticus* **ATCC# 17802** Vomiting, diarrhea, abdominal pain, bloodborne infection. Fever, bleeding within the skin, ulcers requiring surgical removal	Undercooked or raw seafood, such as shellfish (especially oysters)

**99.999% reduction of the microorganisms achieved within 15 seconds*

Source: www.cdc.gov/foodsafety

ADDITIONAL INFORMATION AND TESTING

SAFETY

Repeated Insult Patch Test

Purpose – To determine the dermal irritation and sensitization potential of Sani Professional® Hands Instant Sanitizing Wipes.

Methodology – Study was conducted using 216 subjects. The induction phase involved repeated exposure of the product at the same site on each subject three times a week for a total of nine applications. Ten to 14 days after induction, a challenge patch was applied to a virgin site on each subject for 24 hours. After 24 hours, the patch was removed and the site was evaluated for dermal irritation.

Conclusion – Sani Professional® Hands Instant Sanitizing Wipes demonstrated minimal or no reaction which would cause dermal irritation or sensitization.

Independent Laboratory: Clinical Research Laboratories, Piscataway, NJ: June 11, 2004

SAFETY IN USE

Repeated Insult Patch Test

Purpose – To evaluate the dermal irritation potential of Sani Professional® Hands Instant Sanitizing Wipes under exaggerated use conditions following 25 repeated uses.

Methodology – A total of 25 human subjects completed the study. Each subject used one wipe on both hands for approximately 30 seconds. This was repeated 25 times with 5-minute intervals between uses. Subjects hands were evaluated at the end of 25 uses.

Conclusion – Sani Professional® Hands Instant Sanitizing Wipes did not demonstrate any potential for eliciting dermal irritation in any of the 25 human subjects.

Independent Laboratory: Clinical Research Laboratories, Piscataway, NJ: May 13, 2004

FOODSERVICE INFORMATION AND TESTING

FDA Food Code Compliant

Meets the Food and Drug Administration (FDA) Food Code, Section 2-301.16.

NSF Nonfood Compounds Registration #151433 Category E3

This product is acceptable for use as a hand sanitizing product in and around food processing areas.

Kills Top Foodborne Pathogens

Tested 99.999% effective in 15 seconds against *Campylobacter jejuni, Escherichia coli* (0157:H7), *Listeria monocytogenes, Salmonella choleraesuis serotype typhimurium, Shigella sonnei* and *Vibrio parahaemolyticus.*

OTHER INFORMATION AND TESTING

Skin Moisturization

Sani Professional® Hands Instant Sanitizing Wipes contains several emollients, such as, glycerin, propylene glycol, aloe and Vitamin E acetate to promote moisturization of skin and help minimize the drying effect of alcohol.

Independent Laboratory: Clinical Research Laboratories, Inc., Piscataway NJ, December 17, 2007

OSHA Bloodborne Pathogen Standard 29 CFR Part 1910.1030

Meets the specific handwashing standard 1910.1030 (d)(2)(iv).

CHG Compatibility

A laboratory study was conducted to determine the effects of Chlorhexidine Gluconate (CHG) when combined directly with the Sani Professional® Hands Instant Sanitizing Wipes solution. The study was based on the equivalent of using ten applications of Sani Professional® Hands Instant Sanitizing Wipes and one application of a 3.0% CHG product. Results showed that Sani Professional® Hands Instant Sanitizing Wipes did not cause significant reduction of percent CHG, and would therefore, not adversely affect the persistent activity of CHG containing products.

Glove Use

It is recommended to allow hands to dry completely after using Sani Professional® Hands Instant Sanitizing Wipes prior to applying gloves.

Shelf Life

FDA-OTC stability was conducted for purposes of establishing an expiration date for the unopened product. Current stability data supports a two-year expiration period from date of manufacture.

PRECAUTIONARY STATEMENTS

Flammable, keep away from fire or flame.

For external use only.

Do not use in or contact the eyes.

Discontinue use if irritation and redness develop.

If condition persists for more than 72 hours consult a physician.

Made in USA with domestic and imported materials