

TECHNICAL BULLETIN

ASSIST ANTIMICROBIAL HAND CLEANSER

#83101

Technical Data

INDICATIONS: Handwash to help decrease bacteria on the skin. Recommended for repeated use.

DIRECTIONS: Wet hands. Apply a small amount of product and work into a lather. Rinse well and dry hands completely.

Physical Properties

Appearance: **Clear Yellow to Amber**

Fragrance: **Floral Balsam**

Form: **Liquid**

pH: **7.0 – 10.0**

Ingredients

INCI Name*	Ingredient Class
Active:	
Chloroxylenol	Antimicrobial Agent
Also Contains:	
Water (Aqua)	Carrier
Coconut Acid	Cleansing Agent
Oleic Acid	Cleansing Agent
Sodium Sulfate	Viscosity Increasing Agent
Ethanolamine	pH Adjuster
Cocamide MEA	Surfactant, Foam Booster, Viscosity Increasing Agent
Coco-Betaine	Surfactant, Foam Booster, Viscosity Increasing Agent
Propylene Glycol	Skin Conditioning Agent, Humectant
Fragrance (Parfum)	Fragrance
Tetrasodium EDTA	Chelating Agent
Aloe Barbadensis Leaf Juice	Botanical Additive, Skin Conditioning Agent
Tocopheryl Acetate	Skin Conditioning Agent
Hydroxypropyl Methylcellulose	Viscosity Increasing Agent
Hydrolyzed Vegetable Protein	Skin Conditioning Agent
Retinyl Palmitate	Skin Conditioning Agent
Zea Mays (Corn) Oil	Skin Conditioning Agent

*International Nomenclature Cosmetic Ingredient

Irritancy Data and Allergy Test Results

21 Day Cumulative Irritancy Assay with Delayed Challenge

Objective:	Evaluation of skin irritation potential in humans.
Description of Test:	Phillips et al (Toxic and Applied Pharmacology 21: 369-382) summarizes the method utilized for this evaluation. Fresh materials are applied daily, 5 days per week, for 21 days to the same site (patches were not moved or reapplied on weekends or holidays).
Independent Laboratory:	Dermatologic Research Laboratory, San Francisco, CA, U.S.A.
Date:	17 October, 1997
Results:	Average Score = 0.09 (scale 0 – 4). Lower scores indicate low potential for skin irritation and allergic contact dermatitis.
Conclusions:	Product has a low potential for skin irritation and allergic contact dermatitis.

Efficacy Data – *In Vitro*

Timed – Exposure Kill Evaluation

Objective: Evaluate the antimicrobial effectiveness of the product *in vitro*.

Description of Test: Fifteen (15) second exposure kill studies were performed utilizing eighteen (18) challenge microorganisms. The challenge inoculum was introduced to the test product at time zero; a portion of the sample was removed and placed in neutralizing media at the appropriate time (15 seconds). Standard plate counting techniques were used to enumerate viable challenge microorganisms.

Independent Laboratory: BioScience Laboratories, Inc., Bozeman, MT U.S.A.

Date: 13 October, 1998

Results:

Microorganism	ATCC No.	Percent Reduction
<i>Acinetobacter baumannii</i>	19606	>99.999
<i>Campylobacter jejuni</i>	29428	>99.999
<i>Citrobacter freundii</i>	8090	98.554
<i>Clostridium difficile</i>	9689	>99.999
<i>Clostridium perfringens</i>	13124	>99.999
<i>Enterococcus faecalis</i> Vancomycin resistant	51575	99.866
<i>Enterococcus faecium</i> Vancomycin resistant	51559	99.954
<i>Escherichia coli</i>	11229	>99.999
<i>Escherichia coli</i> (O157:H7)	35150	>99.999
<i>Klebsiella pneumoniae</i>	11296	>99.999
<i>Listeria monocytogenes</i>	7644	>99.999
<i>Pseudomonas aeruginosa</i>	15442	>99.999
<i>Salmonella enteritidis</i>	13076	>99.999
<i>Salmonella typhimurium</i>	14028	99.996
<i>Shigella dysenteriae</i>	Clinical isolate	99.992
<i>Shigella sonnei</i>	11060	>99.999
<i>Staphylococcus aureus</i> Methicillin Resistant (MRSA)	33591	99.014
<i>Streptococcus pyogenes</i>	19615	>99.999

Conclusion: Very effective reduction of Gram-negative and Gram-positive bacteria was demonstrated.

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