

MATERIAL SAFETY DATA SHEET: PREVACARE* Antimicrobial Handwash

EFFECTIVE DATE: 9/28/98

MSDS NO. 31000

Johnson & Johnson Medical, Division of Ethicon, Inc. urges the customer receiving this Material Safety Data Sheet (MSDS) to study the information provided carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should: (1) Notify your employees, agents, contractors of the information on this sheet and (2) furnish a copy to each of your customers to inform their employees and customers as well.

CHEMTREC® Emergency Telephone Numbers (24-HOURS)

United States: 800-424-9300

International 703-527-3887 (collect)

These CHEMTREC® numbers are to be used **ONLY IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION OR ACCIDENT**

For Product Information or Comments, Call
Johnson & Johnson Medical: 1-800-423-5850

IDENTITY: Hand Wash

TRADE NAME: PREVACARE® Antimicrobial Handwash

SYNONYMS: Active Ingredient: Triclosan: 2, 4, 4'-trichloro-2'-hydroxydiphenyl ether

PRODUCT CODES: 31002, 31108, 31116, 31250, 31451

CHEMICAL FAMILY: Substituted diphenyl ether

MOLECULAR FORMULA: C₁₂H₇Cl₃O₁ (triclosan)

MOLECULAR WEIGHT: 289.53 (triclosan)

MANUFACTURER'S NAME: Johnson & Johnson Medical
Division of Ethicon, Inc.
P.O. Box 90130
Arlington, TX 76004-3130

COMPONENT	CAS REGISTRY NO.	PERCENT	OSHA PEL	ACGIH TLV
Triclosan	3380-34-5	0.25	None established	None established

APPEARANCE AND ODOR: Peach colored liquid; Characteristic odor

Boiling Point: N/A

Melting Point: 56-58° C (triclosan)

Vapor Pressure: N/A

pH: 5.0 - 6.0

Specific Gravity: 1.03 @ 25° C

Vapor Density: N/A

Solubility in Water: Complete

Viscosity: 2,000-5,000 cps @ 25° C

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Flash Point: N/A

Auto-Ignition Temperature: N/A

Flammable Limits in Air, % By Volume: Upper: N/A Lower: N/A

Fire and Explosion Hazards: None Known

Extinguishing Media: Use extinguishing media appropriate for surrounding materials.

Fire Fighting Instructions: Firefighters should use self-contained breathing apparatus and protective clothing

Hazardous Combustion Products: Oxides of carbon, nitrogen, and sulfur; chlorine, HCl.

Stability: Stable under normal storage and handling conditions.

Incompatibility: None determined.

Hazardous Decomposition Products: When heated to decomposition, may emit oxides of carbon, nitrogen, and sulfur; chlorine, HCl.

Hazardous Polymerization: Will not occur.

Potential Health Effects: PREVACARE[®] Antimicrobial Handwash is an aqueous mixture of triclosan, surfactants, emollients and moisturizers. It is intended for antimicrobial handwashing. This product poses no significant health hazard when used as intended. Direct contact with eyes may cause irritation. Allergic reactions may occur in individuals sensitive to specific ingredients in the product.

EMERGENCY AND FIRST AID PROCEDURE:

Eye Contact: Wash eyes thoroughly with large quantities of water. Contact a physician if irritation worsens or persists.

Ingestion: Unlikely route of exposure with this preparation. If ingested, give one or two glasses of water to dilute. Do not give anything by mouth or induce vomiting if victim is convulsing or unconscious.

Skin Contact: If rash or irritation develop, contact a physician.

Inhalation: Not applicable

LISTED AS CARCINOGEN BY - NTP: No IARC MONOGRAPHS: No OSHA: No California Proposition No. 65: No

Handling: Avoid contact with eyes. Rinse thoroughly after using.

Storage: Store at room temperature 15° - 30° C (59° - 86°F).

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This product is not regulated by DOT under DOT 49 CFR-Transportation.

Engineering Controls: Not required if used as intended.

Respiratory Protection: Not required if used as intended.

Skin Protection: Not applicable

Eye Protection: Occupational exposure: chemical safety goggles if liquid contact with eyes is possible. Emergency eyewash stations should be accessible to the work areas.

Waste Disposal: Disposal should be conducted in accordance with local, state and federal environmental regulations.

SECTION 11: TOXICOLOGICAL INFORMATION

GENERAL: PREVACARE* Antimicrobial Handwash is a handwash product containing low concentrations of triclosan, surfactants, emollients and moisturizers. Allergic reactions may occur in individuals sensitive to triclosan or citric acid. Toxicity information is available for the undiluted individual ingredients. However the concentrations present in this formulation pose no significant health hazard other than possible eye irritation. Selected relevant data for the individual undiluted ingredients are given below.

ORAL TOXICITY: Symptoms after ingestion could include nausea, vomiting, and diarrhea. Acute oral LD₅₀ for triclosan (rat): 4,300 mg/kg.

INHALATION TOXICITY: N/A. Not an expected route of exposure.

EYE: The ingredients in this formulation are mild to severe eye irritants in undiluted form.

SKIN: Skin absorption of minimal amounts may occur. Acute dermal LD₅₀ for triclosan (rabbit): >6,000 mg/kg. The ingredients in undiluted form are mild to moderate skin irritants. Prolonged repeated occupational exposure may cause drying of the skin.

SENSITIZATION: Triclosan was found to be non-sensitizing, non-phototoxic and non-photosensitizing in human tests. However, case reports do exist in the literature of positive patch tests in individuals. Triclosan should be considered to be a weak sensitizer, as is citric acid.

CHRONIC/CARCINOGENICITY: Target organs identified after chronic studies in animals: triclosan: liver. No ingredient in this formulation is listed as a carcinogen by NTP, IARC, OSHA, or California Proposition No. 65.

MUTAGENICITY: Tests on triclosan were negative.

REPRODUCTIVE/DEVELOPMENTAL EFFECTS: Triclosan: no reproductive toxicity. No teratogenic effect in rats up to 225 mg/kg/day during gestation.

MEDICAL CONDITIONS ENHANCING TOXICITY: No known hypersensitivity to any ingredient in this formulation.

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ECOTOXICOLOGICAL INFORMATION: Triclosan: 48-hr EC_{50} in *Daphnia*: 0.4 mg/l; 96-hr LC_{50} Zebra fish: 0.5 mg/l; highly toxic. Inhibition of activated sludge respiration at 20 mg/l (3-hr).

CHEMICAL FATE: Triclosan: Biological Oxygen Demand (BOD₅): <0.01 g/g; Chemical Oxygen Demand (COD): 1.116 g/g.

ACGIH = American Conference of Governmental & Industrial Hygienists

CAS = Chemical Abstract Service

DOT = Department of Transportation

IARC = International Agency for Research on Cancer

N/A = Not applicable

NTP = National Toxicology Program

OSHA = Occupational Safety & Health Administration

PEL = Permissible Exposure Limit

TLV = Threshold Limit Value

We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and the conditions of the use of the product are not under the control of Johnson & Johnson Medical it is the user's obligation to determine conditions of safe use of the product.

The data contained above are not to be taken as a warranty or representation for which Johnson & Johnson Medical, Division of Ethicon, Inc. assumes legal responsibility. They are offered only for your consideration and verification.

Correction made to international emergency number; additional information added in Sections 3, 11, and 12.

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Johnson & Johnson MEDICAL™

FAX ON DEMAND - MATERIAL SAFETY DATA SHEETS, 1-800-423-5850, option 2

The attached list represents all the products manufactured by Johnson & Johnson Medical that require a Material Safety Data Sheet (MSDS). Please be advised all of our other products, not listed, do not require an MSDS, as they will not release hazardous chemicals under normal conditions of usage or storage. Accordingly, OSHA exempts these products from MSDS requirements.

If your fax does not arrive within a few minutes, please call again and press option 3 to speak to a representative.

PROMPT	PRODUCT	PRODUCT CODES
Press 1	K-Y® Jelly (NO MSDS REQUIRED)	ALL
Press 2	MICROCLENS® Wipes	5100
Press 3	NU-GAUZE® Packing Strips with Iodoform	8755, 8756, 8757, 8758
Press 4	NEUTROGENA® Norwegian Formula® Hand Cream	41002
Press 5	PREVACARE® Antimicrobial Hand Gel	37000, 37004, 37008, 37432, 37451
Press 6	PREVACARE® Antimicrobial Handwash	31002, 31108, 31116, 31250, 31451
Press 7	PREVACARE® Health Care Personal Handwash	32002, 32108, 32116, 32250, 32451
Press 8	INTEGRA® Artificial Skin Packaging Solution (No MSDS REQUIRED for actual product)	LAS405, LAS410, LAS101, LAS110

Sub Menu: For the remainder of the PREVACARE Product line, Press 9 then the required prompt. Once you enter the sub menu you will not be able to go back to the first 8 products.

PROMPT	PRODUCT	PRODUCT CODES
Press 1	PREVACARE® Gentle Skin Cleanser	33002, 33108, 33116, 33250, 33451
Press 2	PREVACARE® Total Solution Skin Care Spray	55000, 55308
Press 3	PREVACARE® Moisturizing Lotion	42002, 42116, 42451
Press 4	PREVACARE® No-Rinse Personal Cleanser	51000, 51308
Press 5	PREVACARE® Personal Protective Cream	52000, 52002, 52004
Press 6	PREVACARE® Extra Protection Ointment	53000, 53002
Press 7	PREVACARE® Moisturizing Cream	54000, 54002, 54004
Press 8	PREVACARE® R Germicidal Hand Rinse	35004, 35008, 35016
Press 9	PREVACARE® S Surgical Scrub Solution	24004, 24008, 24016, 24432, 24250

For obtaining multiple MSDS without hanging up: After you make your first selection the system will prompt you to enter your phone number. **DO NOT ENTER YOUR PHONE NUMBER AT THIS TIME.** Press the asterisk key (*). This will send you back to the selection list. Continue to make selections using the asterisk key and when you have made your last selection, enter your phone number when prompted. All your selections you have chosen will be sent. **NOTE:** Once you enter the sub menu under prompt 9 you will not be able to choose from the first 8 products.

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