

Sterillium® Rub Fragrance Free

Surgical hand antiseptic with skin care emollients



**Surgical hand
hygiene for
hands-on care**



BODE Chemie GmbH

Designed to meet ORNAC Guidelines for surgical hand antiseptics

Prevent and Protect*

Surgical hand antisepsis can play an important supporting role in helping prevent healthcare associated surgical site infections. The goal of surgical hand antisepsis is to eliminate transient microorganisms and reduce resident microorganisms prior to the surgical procedure. Also, microorganism levels may not return to baseline (pre-antisepsis levels) within 6-hours of application.

Sterillium® Rub Fragrance Free is a uniquely formulated surgical hand antiseptic that uses a single active ingredient—ethyl alcohol 80% w/w plus skin care emollients.

Sterillium® Rub Fragrance Free test values were obtained with only a 2 minute application time

Sterillium® Rub Fragrance Free surgical hand hygiene performance—in vivo testing¹

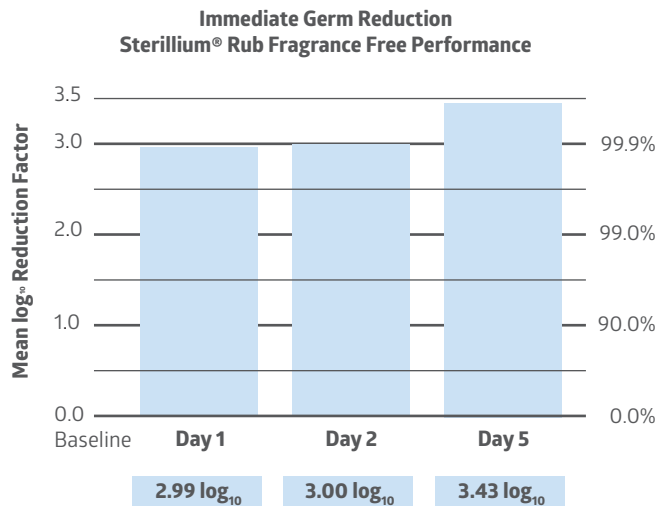
Sterillium® Rub Fragrance Free has been tested by independent laboratories and is certified to meet the performance requirements—immediate and 6-hour persistent effects—

Surgical Performance	Immediate Log ₁₀ Reduction Factor			6-Hour Log ₁₀ Reduction Factor		
	Day 1	Day 2	Day 5	Day 1	Day 2	Day 5
Sterillium® Rub Fragrance Free Performance	2.99	3.00	3.43	1.54	1.85	2.13

Use caution when comparing *in vivo* test results as products referencing higher reduction factor (Rf) numbers and claiming to be “safer, longer” as these often use the testing method acceptable at the time of the 1994 TFM. This version of ASTM E1115-94 method has been shown to overstate the effectiveness of products formulated with CHG by as much as 1.1 log₁₀ reduction. See: *American Journal of Infection Control* 41 (2013) e1-5; Efficacy of surgical hand scrub products based on chlorhexidine is largely overestimated without neutralizing agents in the sampling fluid. G. Kampf *et al.*

Also refer to ASTM E 1115-11; ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, United States.

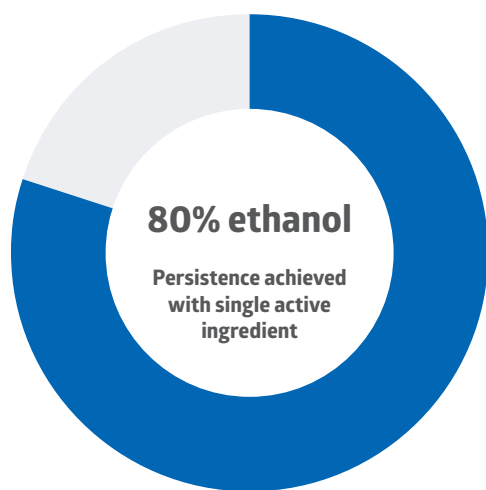
* For hospital and professional use only.



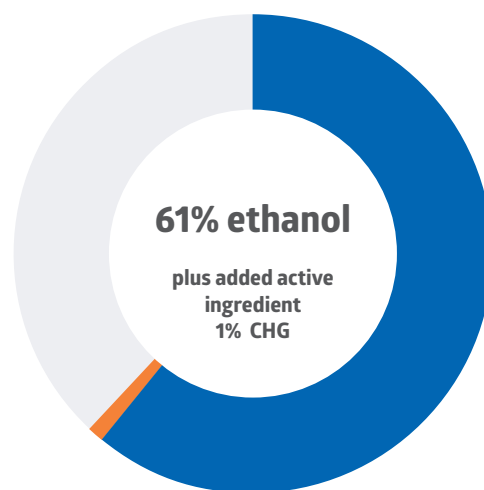
Achieve Persistence with Surgical Hand Hygiene

An alcohol-based surgical hand rub must keep hand flora below baseline levels for 6-hours.

Examples of Formulation Strategies to Achieve 6-Hour Surgical Persistence



Sterillium® Rub Fragrance Free—
80% v/v ethyl alcohol (73.5% w/w) is minimum ethanol concentration required by WHO³ for hand hygiene to meet surgical immediate and persistent requirements without having to add additional active ingredients, "preservatives" or "inactive" ingredients to the formulation.



Products using added ingredients—
61% w/w ethanol and 1% chlorhexidine gluconate claimed as active

Product Formulation Strategy—a manufacturer's choice to design a product that best meets customer needs.

Recognize the success of different strategies

The World Health Organization recognizes that a persistent effect can be achieved without the specific addition of chemicals known for sustained, persistent activity. Important to note, the WHO² has established 80% v/v ethyl alcohol (73.5% w/w) as the minimum concentration (for a surgical hand rub) to meet requirements for immediate and persistent activity without the need for other added active ingredients.

“...it is important to note that the antibacterial efficacy of products containing high concentrations of alcohol by far surpasses that of any medicated soap presently available. In addition, the initial reduction of the resident skin flora is so rapid and effective that bacterial regrowth to baseline on the gloved hand takes more than six hours.”³

In Vitro Time Kill Testing⁵

Sterillium® Rub Fragrance Free demonstrates greater than 99.999% microbicidal reduction against a broad spectrum of relevant infectious microorganisms in 15 seconds.*

Challenge Organisms	Germ Reduction in 15 seconds	
	Log ₁₀ [*]	Percent
<i>Candida albicans</i> , ATCC 10231	5.97	99.99989
<i>Enterococcus faecium</i> (VRE) CI 99164	5.98	99.99990
<i>Escherichia coli</i> , ATCC 25922	5.82	99.99985
<i>Escherichia coli</i> , ATCC 11229	5.82	99.99985
<i>Klebsiella pneumoniae</i> , ATCC 11296	5.90	99.99987
<i>Pseudomonas aeruginosa</i> , ATCC 15442	5.94	99.99989
<i>Staphylococcus aureus</i> MRSA, ATCC 33592	6.02	99.99990
<i>Staphylococcus epidermidis</i> , ATCC 12228	6.00	99.99990

Sterillium® Rub Fragrance free achieves $\geq 5 \log_{10}$ (≥ 99.999 percent*) reduction of these and 42 other tested pathogens within 15 seconds..

* Under laboratory conditions.

Sterillium® Rub Fragrance Free has proven to meet:

- ORNAC Guidelines for Surgical Hand Preparation⁹
- CDC Guidelines for Surgical Hand preparation⁶
- AORN Recommended Practices for Surgical Hand Prep⁷
- USP 797 Alcohol-Based Surgical Handrub Guidelines⁸

Maintain Healthy Skin

Maintaining skin integrity, our natural barrier to infection, is critically important. Healthy skin is key for infection prevention, personal safety and helps support surgical hand hygiene compliance.

Increasing skin sensitivity, skin irritation and even skin allergies are being reported at increasing rates among surgical staff.

Sterillium® Rub Fragrance Free Strategy for Healthy Skin

- Formulated without CHG
- Reduces skin-stressing and potentially skin-drying ingredients
- Helps eliminate potentially negative effects of repeatedly applying non-volatile antimicrobials and preservatives to healthy skin
- Antiseptic rubbing instead of scrubbing
- Emollients support and restore the skin barrier



Sterillium® Rub Fragrance Free Surgical Glove Comfort and Superior Glove Feel

Precise “feel” in the surgical glove is not sacrificed by applying a thick lotion, a sticky gel, a tacky antiseptic or moisturizing formula

- Donning surgical gloves is easy
- Emollients provide skin care
- Working hands are left feeling clean, soft, non-sticky and ready-to-glove
- Application in 2 minutes provides efficient and effective antiseptic surgical hand prep
- Tested compatible with a variety of surgical gloves



- **Non-irritating**
- **Immediate**
- **Persistent**
- **Effective and efficient**



Apply Sterillium® Rub Fragrance Free

You may use Sterillium® Rub Fragrance Free as your “first scrub” of the day provided you follow your facility’s guidelines and some simple rules:

For Sterillium® Rub Fragrance Free, prior to the first procedure of the day

Pre-wash hands and forearms with a non-antimicrobial soap and completely dry hands and forearms with a non-sterile towel.^{6,7,9} Nails should be cleaned under running water.^{6,7,9}

When Applying Sterillium® Rub Fragrance Free

Apply to clean, dry hands and forearms in a series of steps. Complete application finishing with the hands. Hands should remain moist for 2 minutes. See Application Instructions

Choice and Responsibilities

Selecting Sterillium® Rub Fragrance Free for the first case of the day is a choice made by your facility’s Infection Prevention Team. Evidence suggests choosing an alcohol-based scrub would result in higher initial germ kill, lower “scrub” costs, provide time-savings and promote healthier skin.¹⁰



Still using a “Blended Approach”?

Many facilities still embrace the use of a “Blended Approach” for surgical hand hygiene where a traditional scrub brush is required for the first case of the day, followed by use of an alcohol-based product. Using a brush with medicated soap and nail pick provides the required mechanical cleaning as well as hand disinfection for the first case. Then, for subsequent cases, if hands are not visibly soiled, apply Sterillium® Rub Fragrance Free to clean, dry skin.



Application Instructions

Sterillium® Rub Fragrance Free Surgical Rub Method

Apply to clean, dry hands. For the first use of the day, clean under nails with a nail pick. Application process should take 2 minutes.

Forearms and hands must remain wet for the entire 2 minute application time.



Step 1

Place cupped hand under dispenser. Receive dosage (approx. 2 mL) and dip fingertips of opposite hand into palm, working the solution under the nails into the cuticles; spread to palm, fingers, back of hand and apply up to forearm.



Step 2

Repeat Step 1 to opposite hand and forearm.

Step 1 & 2

Hand size and forearm coverage may vary. Take additional doses if needed.



Step 3

Receive dosage (approx. 2 mL) into hands paying particular attention to the fingers, cuticles and interdigital spaces. Rub anti-septic fully into the hands; avoid returning to the forearm.

Rub hands until dry.



Routine Hand Hygiene Practices

- Hand washing should take place whenever hands are visibly soiled
- After using the restroom
- Before and after eating food
- After leaving and returning to the sub-sterile surgical environment or if exposure to spore forming bacteria is suspected
- Use an alcohol-based hand antiseptic when hands are not visibly dirty

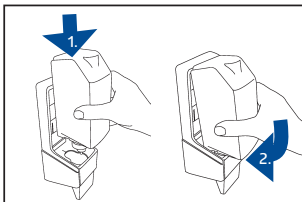
As always, Hand Hygiene rules should be strictly followed.

Environmentally Responsible

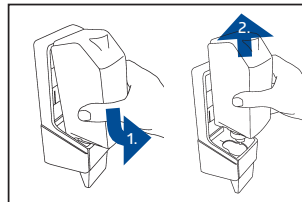
- 98% of Sterillium® Rub Fragrance Free ingredients are natural.
- Sterillium® Rub Fragrance free bottles and pumps are 100% recyclable - HDPE.



How to install the bottle



How to remove the bottle



Order today



Item No.	Description	NPN No.	Pkg.
MSC97059CFF	Sterillium® Rub Fragrance Free, 50 mL	02248863	50/cs
MSC97060CFF	Sterillium® Rub Fragrance Free, 1,000 ml	02248863	8/cs
LXT10AUTO	Touchless Dispenser		1 ea
LXF10FOOT	Foot Operated Dispense		1 ea
STRLMSINK66	Stainless Steel Sink Bracket, 66° angle		4/cs
STRLMSINK90	Stainless Steel Sink Bracket, 90° angle		4/cs
HHTABLESTAND	Table Stand For Mounting Sterillium		2/cs
STRLMIVCLAMP	IV Pole Mount		1 ea
MSC9204	Nail Picks, 150 Nail Picks per Canister		6/cs

For more information contact your Medline Representative at 1-800-268-2848 or visit www.medline.ca



BODE Chemie GmbH



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Improving
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au cœur
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References: **1.**ASTM E1115-11. Standard Test Method for Evaluation of Surgical Hand Scrub Formulations. ASTM International, West Conshohocken, PA, 2011, DOI: 10.1520 / E1115-11, www.astm.org. Independent In-Vivo Study Data on file. **2.**World Alliance for Patient Safety. WHO Guidelines in Hand Hygiene in Health Care, Global Patient Safety Challenge, Clean Care is Safer Care. 2009. Page 49. **3.**World Alliance for Patient Safety. WHO Guidelines in Hand Hygiene in Health Care, Global Patient Safety Challenge, Clean Care is Safer Care. 2009. Page 57. **4.**Independent In-Vitro Time Kill Study. Data on file. **5.**ASTM D5151 testing. Data on file. **6.**Centers for Disease Control and Prevention. Guideline for Hand Hygiene in Health-Care Settings: Recommendations of the Healthcare Infection Control Practices Advisory Committee and the HICPAC/SHEA/APIC/IDSA Hand Hygiene Task Force. MMWR 2002;51(No. RR-16). **7.**AORN. Association for periOperative Registered Nurses; 2012 Perioperative Standards and Recommended Practices. **8.**The United States Pharmacopeial Convention; (797) Pharmaceutical Compounding – Sterile Preparations; 2007, Page 29. **9.**Operating Room Nurses Association of Canada (ORNAC), 12th Edition – Oct. 2015, Sec. 2 Page 125. **10.**Larson, E. L., AORN Journal, February 2001; Comparison of Different Regimens for Surgical Hand Preparation – Statistical Data Included.