

INFORMATIONAL DATA SHEET

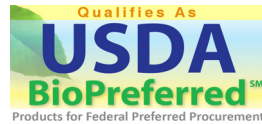
OSM Hand Sanitizers are alcohol and fragrance free, non-flammable and non-toxic. Effective protection anywhere germs or irritants are found.

OSM Hand Sanitizers are unique, patented, FDA compliant skin antiseptics containing a broad spectrum of antimicrobial activity that forms a protective film on healthy skin. Each protective molecule is surrounded by PERSISTENT antimicrobial activity to inhibit the growth of and kill a wide range of potential disease-causing

bacterial pathogens and microorganisms. As an over-the-counter waterless hand disinfectant, they can be used to provide protection where sinks are not readily available or in-between regular hand washings.

OSM Hand Sanitizers protect against self and/or cross contamination of bacteria. They significantly reduce bacterial pathogens that cause disease on contact. One dime sized amount of OSM Hand Sanitizer has been clinically proven to be extremely

effective in killing 99.99% of common germs and bacteria that may cause illness, including MRSA and C-diff. It takes more than 240 applications of an alcohol based sanitizing gel to equal the effectiveness of a single application of OSM Hand Sanitizer. Implementing these products into your daily hygienic routine can help significantly reduce the chances of becoming sick by up to 85%. Unlike alcohol based gels which dry out the skin, OSM Hand Sanitizers moisturize and improve the skin with continued use.



OSM, Inc. is pleased to offer USDA BioPreferred designated products. For more info about the BioPreferred program, visit www.biopreferred.gov

BENZALKONIUM CHLORIDE
Benzalkonium Chloride is an **alcohol free and fragrance free** antimicrobial compound that has been widely used in the health care industry for more than 50 years. It has been used in formulas for surface cleaners, sterilizing agents, and leave-on FDA Monograph antibacterial skin treatment products. Its chemical properties make it an excellent candidate for persistent antimicrobial activity on skin.

PART NUMBERS

OSM Hand Sani	Part number
1.7 OZ FOAM	15-336-540
7.1 OZ FOAM	15-336-529
100 CT WIPE	15-336-527

OSM Hand Sani	Part number
2 OZ SPRAY	15-336-475
2 OZ SPRAY 72/CS	15-336-475
8 OZ SPRAY	15-366-476
GALLON REFILL	15-336-550

Dispensers	Part number
MANUAL	15-336-552
TOUCHLESS	15-336-551
BRACKET	15-336-554
STAND	15-336-553

COMPARISON CHART — OSM HAND SANITIZER VS. ISOPROPYL ALCOHOL

OSM Hand Sanitizer

Instant Germ Killer w/ Extended Protection
 Remains Effective After Hand Washing
 Alcohol and Petroleum Free
 Contains Skin Conditioners & Moisturizers
 Soothes and Moisturizes Dry Skin
 Helps Improve the Quality of Skin
 Reapply Every 2-4 Hours
 Non-flammable
 Fragrance Free

Standard Alcohol Gels

Instant Germ Killer (no residual effects)
 Evaporates / Washes Off w/ Water
 Alcohol Based
 Most Do Not Contain Emollients and Moisturizers
 Extremely Drying to Skin
 Causes Irritation and Flaking of Skin
 Must Reapply Every 10 Minutes
 Flammable
 Alcohol Odor

APPLICATIONS

Physician Offices
 Hospitals & Clinics
 Hospice
 VA Medical Centers
 Nursing Homes
 Veterinary Offices & Clinics
 Laboratories
 Day Care Centers
 Preschools, K-12
 Colleges & Universities

WHAT DOES THIS MEAN TO YOU...

- Once alcohol gel dries, you are no longer protected from germs because there is NO persistent antimicrobial activity.
- Alcohol gels are flammable, as they usually contain at least 60% or more of either Isopropyl Alcohol (IPA) or Ethyl Alcohol (Ethanol). Alcohol sanitizers can create a fire hazard in areas where an ignition source is present.
- IPA and Ethanol can be toxic if ingested. Alcohol gels should be kept out of the reach of children. If consumed, children or adults may become sick or poisoned. IPA can cause blindness if swallowed or comes in contact with eyes.
- Alcohols are drying and remove the natural oils found in the skin, making your skin more susceptible to germs and infections. OSM Hand Sanitizer moisturizes and conditions your skin and helps to heal damaged skin with regular use.
- OSM Hand Sanitizer is fragrance free and won't leave the essential oils associated with many fragrances that can cause allergic reactions

OSM Hand Sanitizer Products

Time Kill Study

This study is designed to examine the rate of kill of a test substance after inoculation with a test organism. Results are expressed in percent reduction and log reduction of the test organism. Exposure time 15 Seconds

Organism	Test Population Control (CFU/ml)	Number of Survivors (CFU/ml)	% Reduction	Log Reduction
<i>Campylobacter jejuni</i> ATCC 29428	1.02 X 10 ⁷	<1 X 10 ²	>99.999	>5.00 Log ₁₀
<i>Candida albicans</i> ATCC 10231	1.60 X 10 ⁹	6.0 X 10 ³	96.3	1.42 Log ₁₀
<i>Clostridium difficile</i> ATCC 9689	3.40 X 10 ⁸	<2	>99.9999	>6.20 Log ₁₀
<i>Enterococcus faecalis</i> Vancomycin Resistant (VRE) ATCC 51575	1.12 X 10 ⁸	3.2 X 10 ¹	99.99	4.54 Log ₁₀
<i>Escherichia coli</i> ATCC 11229	3.80 X 10 ⁸	4	99.999	6.00 Log ₁₀
<i>Escherichia coli</i> O157:H7 ATCC 35150	1.26 X 10 ⁸	<2	>99.999	>5.80 Log ₁₀
<i>Klebsiella pneumoniae</i> ATCC 4352	1.10 X 10 ⁸	2	99.999	5.70 Log ₁₀
<i>Listeria monocytogenes</i> ATCC 19117	4.7 X 10 ⁸	1.9 X 10 ³	99.9	3.39 Log ₁₀
<i>Pseudomonas aeruginosa</i> ATCC 15442	3.5 X 10 ⁸	<2	99.9999	>6.20 Log ₁₀
<i>Salmonella choleraesuis</i> serotype enteritidis ATCC 4931	6.8 X 10 ⁸	2	>99.999	5.50 Log ₁₀
<i>Salmonella choleraesuis</i> serotype paratyphi ATCC 8759	5.6 X 10 ⁸	<2	>99.999	>5.50 Log ₁₀
<i>Salmonella choleraesuis</i> serotype pullorum ATCC 19945	8.9 X 10 ⁸	<2	>99.999	>5.70 Log ₁₀
<i>Salmonella choleraesuis</i> serotype typhimurium ATCC 23564	7.7 X 10 ⁸	6	>99.999	>5.10 Log ₁₀
<i>Salmonella typhi</i> ATCC 6539	1.27 X 10 ⁸	2	99.999	5.80 Log ₁₀
<i>Shigella dysenteriae</i> ATCC 13313	1.3 X 10 ⁸	<2	>99.999	>5.80 Log ₁₀
<i>Shigella flexneri</i> ATCC 12022	1.39 X 10 ⁸	2.8 X 10 ¹	99.99	4.69 Log ₁₀
<i>Shigella sonnei</i> ATCC 25931	2.43 X 10 ⁷	2.0 X 10 ¹	99.9999	6.09 Log ₁₀
<i>Staphylococcus aureus</i> ATCC 6538	6.7 X 10 ⁸	<2	>99.9999	>6.53 Log ₁₀
<i>Staphylococcus aureus</i> Methicillin Resistant (MRSA) ATCC 33592	1.23 X 10 ⁷	3.8 X 10 ³	>99.9	3.51 Log ₁₀
<i>Staphylococcus aureus</i> Community Associated Methicillin Resistant (MRSA) NARSA NRS 123, Genotype USA400	1.18 X 10 ⁸	5.8 X 10 ²	>99.9	>3.30 Log ₁₀
<i>Staphylococcus epidermidis</i> ATCC 12228	7.2 X 10 ⁸	<2	99.999	5.56 Log ₁₀
<i>Streptococcus pneumoniae</i> ATCC 6305	6.4 X 10 ⁸	<2	>99.999	>5.51 Log ₁₀
<i>Streptococcus pyogenes</i> ATCC 19615	1.77 X 10 ⁸	<2	>99.999	>5.90 Log ₁₀
<i>Vibrio cholera</i> ATCC 11623	4.7 X 10 ⁸	<2	>99.999	>5.40 Log ₁₀
<i>Xanthomonas axonopodis</i> (Citrus Canker) ATCC 49118	1.28 X 10 ⁸	3.6 X 10 ¹	>99.99	4.55 Log ₁₀
<i>Yersinia enterocolitica</i> ATCC 23715	2.23 X 10 ⁸	3.8 X 10 ¹	99.99	4.77 Log ₁₀



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