

## 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.



GSA# GS-25F-7087G

### Fisher Scientific PART NUMBERS



#15-336-528  
8 oz  
foam pump



#15-336-527  
100 ct  
wipe



#15-336-540  
1.7 oz  
foam pump

### 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.

### 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

**BN0505096**

# 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 <sup>7</sup>	<1 X 10 <sup>2</sup>	>99.999	>5.00 Log <sub>10</sub>
<i>Candida albicans</i> ATCC 10231	1.60 X 10 <sup>9</sup>	6.0 X 10 <sup>4</sup>	96.3	1.42 Log <sub>10</sub>
<i>Clostridium difficile</i> ATCC 9689	3.40 X 10 <sup>8</sup>	<2	>99.9999	>6.20 Log <sub>10</sub>
<i>Enterococcus faecalis</i> Vancomycin Resistant (VRE) ATCC 51575	1.12 X 10 <sup>9</sup>	3.2 X 10 <sup>1</sup>	99.99	4.54 Log <sub>10</sub>
<i>Escherichia coli</i> ATCC 11229	3.80 X 10 <sup>9</sup>	4	99.999	6.00 Log <sub>10</sub>
<i>Escherichia coli</i> O157:H7 ATCC 36150	1.26 X 10 <sup>8</sup>	<2	>99.999	>5.80 Log <sub>10</sub>
<i>Klebsiella pneumoniae</i> ATCC 4352	1.10 X 10 <sup>8</sup>	2	99.999	5.70 Log <sub>10</sub>
<i>Listeria monocytogenes</i> ATCC 19117	4.7 X 10 <sup>8</sup>	1.9 X 10 <sup>3</sup>	99.9	3.39 Log <sub>10</sub>
<i>Pseudomonas aeruginosa</i> ATCC 15442	3.5 X 10 <sup>8</sup>	<2	99.9999	>6.20 Log <sub>10</sub>
<i>Salmonella choleraesuis</i> serotype enteritidis ATCC 4931	6.8 X 10 <sup>9</sup>	2	>99.999	5.50 Log <sub>10</sub>
<i>Salmonella choleraesuis</i> serotype paratyphi ATCC 8759	5.6 X 10 <sup>9</sup>	<2	>99.999	>5.50 Log <sub>10</sub>
<i>Salmonella choleraesuis</i> serotype pullorum ATCC 19945	8.9 X 10 <sup>9</sup>	<2	>99.999	>5.70 Log <sub>10</sub>
<i>Salmonella choleraesuis</i> serotype typhimurium ATCC 23584	7.7 X 10 <sup>9</sup>	6	>99.999	>5.10 Log <sub>10</sub>
<i>Salmonella typhi</i> ATCC 6539	1.27 X 10 <sup>8</sup>	2	99.999	5.80 Log <sub>10</sub>
<i>Shigella dysenteriae</i> ATCC 13313	1.3 X 10 <sup>8</sup>	<2	>99.999	>5.80 Log <sub>10</sub>
<i>Shigella flexneri</i> ATCC 12022	1.39 X 10 <sup>8</sup>	2.8 X 10 <sup>1</sup>	99.99	4.69 Log <sub>10</sub>
<i>Shigella sonnei</i> ATCC 25931	2.43 X 10 <sup>7</sup>	2.0 X 10 <sup>1</sup>	99.9999	6.09 Log <sub>10</sub>
<i>Staphylococcus aureus</i> ATCC 6538	6.7 X 10 <sup>9</sup>	<2	>99.9999	>6.53 Log <sub>10</sub>
<i>Staphylococcus aureus</i> Methicillin Resistant (MRSA) ATCC 33592	1.23 X 10 <sup>7</sup>	3.8 X 10 <sup>3</sup>	>99.9	3.51 Log <sub>10</sub>
<i>Staphylococcus aureus</i> Community Associated Methicillin Resistant (MRSA) NARSA NRS 123, Genotype USA400	1.18 X 10 <sup>8</sup>	5.8 X 10 <sup>2</sup>	>99.9	>3.30 Log <sub>10</sub>
<i>Staphylococcus epidermidis</i> ATCC 12228	7.2 X 10 <sup>8</sup>	<2	99.999	5.58 Log <sub>10</sub>
<i>Streptococcus pneumoniae</i> ATCC 6305	6.4 X 10 <sup>9</sup>	<2	>99.999	>5.51 Log <sub>10</sub>
<i>Streptococcus pyogenes</i> ATCC 19615	1.77 X 10 <sup>8</sup>	<2	>99.999	>5.90 Log <sub>10</sub>
<i>Vibrio cholera</i> ATCC 11623	4.7 X 10 <sup>9</sup>	<2	>99.999	>5.40 Log <sub>10</sub>
<i>Xanthomonas axonopodis</i> (Citrus Canker) ATCC 49118	1.28 X 10 <sup>8</sup>	3.6 X 10 <sup>1</sup>	>99.99	4.55 Log <sub>10</sub>
<i>Yersinia enterocolitica</i> ATCC 23715	2.23 X 10 <sup>9</sup>	3.8 X 10 <sup>1</sup>	99.99	4.77 Log <sub>10</sub>



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