Disinfection
This product is bactericidal according to the EPA Test Guideline 810.2200: AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum and 200 ppm hard water. All tests are completed under Good Laboratory Practice (GLP) conditions.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Sample</th>
<th>Carriers Tested</th>
<th>Carriers Showing Growth</th>
<th>Contact Time</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Pseudomonas aeruginosa</em> (ATCC 15442)</td>
<td>A</td>
<td>60</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>60</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>60</td>
<td>1</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em> (ATCC 6538)</td>
<td>A</td>
<td>60</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>60</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>60</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td><em>Salmonella enterica</em> (ATCC 10708)</td>
<td>A</td>
<td>60</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>60</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>60</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td><em>Escherichia coli</em> (11229)</td>
<td>A</td>
<td>10</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>10</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td><em>Escherichia coli O157:H7</em> (ATCC 43895)</td>
<td>A</td>
<td>10</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>10</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em> Methicillin Resistant (MRSA) (ATCC 33593)</td>
<td>A</td>
<td>10</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>10</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em> Community Associated Methicillin Resistant (CA-MRSA) Genotype USA 300</td>
<td>A</td>
<td>10</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>10</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em> Community Associated Methicillin Resistant (CA-MRSA) Genotype USA 400</td>
<td>A</td>
<td>10</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>10</td>
<td>0</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
</tbody>
</table>

Virucidal
This product is virucidal according to the EPA Test Guideline 810.2200: Virucidal Hard Surface Efficacy Test, in the presence of 5% organic serum and 200 ppm hard water. All tests are completed under Good Laboratory Practice (GLP) conditions.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Sample</th>
<th>Log Reduction</th>
<th>Contact Time</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Immunodeficiency Virus Type 1 (HIV-1)</td>
<td>A</td>
<td>≥3.5 Log₁₀</td>
<td>1 minute</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>≥3.5 Log₁₀</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Influenza A Virus (ATCC VR-544)</td>
<td>A</td>
<td>&gt;5.75 Log₁₀</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>&gt;5.75 Log₁₀</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hepatitis C Virus</td>
<td>A</td>
<td>&gt;5.09 Log₁₀</td>
<td>10 minutes</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>&gt;5.09 Log₁₀</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hepatitis B Virus</td>
<td>A</td>
<td>&gt;5.22 Log₁₀</td>
<td>10 minutes</td>
<td>6 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>&gt;5.22 Log₁₀</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Non-Food Contact Sanitization
This product sanitizes hard porous and non-porous non-food contact surface according to the EPA Test Guideline 810.2300, Sanitizers for use on hard inanimate surfaces in the presence of 5% organic serum and 200 ppm hard water. All tests are completed under Good Laboratory Practice (GLP) conditions.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Sample</th>
<th>% Kill</th>
<th>Contact Time</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staphylococcus aureus (ATCC 6538)</td>
<td>A</td>
<td>&gt;99.9</td>
<td>30 Seconds</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>&gt;99.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>&gt;99.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enterobacter aerogenes (ATCC 4352)</td>
<td>A</td>
<td>&gt;99.9</td>
<td>30 Seconds</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>&gt;99.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>&gt;99.9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mildewcidal
This product is mildewcidal according to the EPA Hard Surface Mildew Fungistatic Test. All tests are completed under Good Laboratory Practice (GLP) conditions.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Sample</th>
<th>No. of Carriers Exposed</th>
<th>Positive</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspergillus niger (ATCC 6275)</td>
<td>A</td>
<td>10</td>
<td>0</td>
<td>2 oz./gal</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>10</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>