WHAT IS DESIGN FOR THE ENVIRONMENT?

Design for the Environment (DfE) is part of the EPA’s Safer Choice program aimed at “helping consumers, businesses, and purchasers find products that perform well and are safer for human health and the environment.”

As part of the Design for Environment program, the EPA evaluates every ingredient against a stringent set of health and environmental criteria from a chemical perspective.

What does the DfE Label Mean on Antimicrobial Product Labels?

By their very nature, most hard surface sanitizers and disinfectants (which the EPA classifies as antimicrobial pesticides) have the potential to pose hazards to human health or the environment. This is particularly the case if the label instructions are not followed precisely. Because of this, the EPA cannot say that any registered hard surface sanitizer or disinfectant is safe under all circumstances.

However, a product has received the EPA’s DfE approval if the product has met the following strict criteria:

- is in the least-hazardous class (i.e. III and IV) of EPA’s acute toxicity category hierarchy;
- is unlikely to have carcinogenic or endocrine disruptor properties;
- is unlikely to cause developmental, reproductive, mutagenic, or neurotoxicity issues;
- has no outstanding “conditional registration” data issues;
- EPA has reviewed and accepted mixtures, including inert ingredients;
- does not require the use of Agency-mandated personal protective equipment;
- has no unresolved or unreasonable adverse effects reported;
- has no unresolved efficacy failures (associated with the Antimicrobial Testing Program or otherwise);
- has no unresolved compliance or enforcement actions associated with it; and
- has the identical formulation as the one identified in the DfE application reviewed by EPA.

Active Ingredients for Use in Products for DfE Pesticide Pilot

Products composed of one or more of the active ingredients listed below may be considered for the DfE label. Note: The product and inert ingredients in the formulation will be reviewed against the Safer Choice standard.

- Citric acid
- Hydrogen peroxide
- L-lactic acid
- Ethanol
- Isopropanol
- Peroxyacetic acid
- Sodium Bisulfate
How does PURELL® Surface Spray compare to other DfE certified products?

When comparing PURELL Surface Spray to the short-list of products that have been certified as Design for Environment:

- Three other DfE certified product also qualified for the lowest EPA toxicity rating (Cat IV), which are Lysol Brand III Kills 99.9% of Viruses & Bacterial All Purpose Cleaner, Lysol Brand Kills 99.9% of Viruses & Bacteria with Hydrogen Peroxide Multipurpose cleaner and Accel Virocide by Virox.
- PURELL surface spray kills more organisms and disinfects faster (in 1-minute instead of 5 – 10 minutes) compared to all other products certified as DfE.

List of Authorized DfE Products

Below is the most current list of products that have been certified for the DfE label. Inclusion on this list does not constitute an endorsement by EPA. Pesticide products are often marketed under more than one name. Use the EPA Registration Number rather than the product name to check on the approval status of a product.

<table>
<thead>
<tr>
<th>EPA Reg. No.</th>
<th>Product/Brand Names</th>
<th>EPA Toxicity Rating</th>
<th>Disinfectant Kill Times</th>
<th>Active Ingredient</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>777-100</td>
<td>Lysol Brand III Kills 99.9% of Viruses &amp; Bacterial** All Purpose Cleaner *** Several different product names</td>
<td>Cat IV</td>
<td>Bactericide 10 min. Virucide 10 min.</td>
<td>l-Lactic Acid</td>
<td>Reckitt Benckiser</td>
</tr>
<tr>
<td>777-111</td>
<td>Lysol Brand Kills CounterMate™ MultiPurpose Cleaner Pomegranate Splash *** Several different product names</td>
<td>Cat III</td>
<td>Bactericide 5 min. Virucide 5 – 10 min.</td>
<td>l-Lactic Acid</td>
<td>Reckitt Benckiser</td>
</tr>
<tr>
<td>777-126</td>
<td>Lysol Brand Kills 99.9% of Viruses &amp; Bacteria** with Hydrogen Peroxide Multipurpose cleaner *** Several different product names</td>
<td>Cat IV</td>
<td>Bactericide 10 min. Virucide 10 min. Fungicide 10 min.</td>
<td>Hydrogen Peroxide</td>
<td>Reckitt Benckiser</td>
</tr>
<tr>
<td>5741-25</td>
<td>GS Restroom Cleaner</td>
<td>Cat III</td>
<td>Bactericide 10 min. Virucide 5 min.</td>
<td>Citric Acid</td>
<td>Spartan Chemical Company</td>
</tr>
<tr>
<td>9902-2</td>
<td>Glisten Dishwasher Magic Cleaner Disinfectant</td>
<td>Cat III</td>
<td>No bugs or kill claims listed on submitted label</td>
<td>Citric Acid</td>
<td>Iron Out, Inc.</td>
</tr>
<tr>
<td>88472-1</td>
<td>Earth Rescue Disinfectant All Purpose Cleaner/Bathroom Cleaner</td>
<td>Cat III</td>
<td>Bactericide 5 min. Virucide 5 min.</td>
<td>l-Lactic Acid</td>
<td>International Consolidated Business</td>
</tr>
<tr>
<td>88472-2</td>
<td>Earth Rescue Toilet Bowl Cleaner</td>
<td>Cat III</td>
<td>Bactericide 5 min. Virucide 5 min.</td>
<td>l-Lactic Acid</td>
<td>International Consolidated Business</td>
</tr>
<tr>
<td>34810-35</td>
<td>Clean-Cide</td>
<td>Cat III</td>
<td>Bactericide 5 – 10 min. Virucidal 5 – 10 min. Fungicide 5 min. Tb 5 min.</td>
<td>Citric Acid</td>
<td>Wexford Labs</td>
</tr>
<tr>
<td>34810-37</td>
<td>Wexford Disinfectant Wipes</td>
<td>Cat III</td>
<td>Bactericide 5 – 10 min. Virucidal 5 – 10 min. Fungicide 5 min. Tb 5 min.</td>
<td>Citric Acid</td>
<td>Wexford Labs</td>
</tr>
<tr>
<td>74559-8</td>
<td>Accel Virocide RTU</td>
<td>Cat IV</td>
<td>Bactericide 5 min. Virucide 5 min.</td>
<td>Hydrogen Peroxide</td>
<td>Virox Technologies</td>
</tr>
<tr>
<td>84368-1-84150</td>
<td>PURELL Surface Spray *** Several different product names</td>
<td>Cat IV</td>
<td>Bactericide 30 sec. - 1 min. Virucide 1 min. Fungicide 30 sec. – 5 min. Tb 5 min.</td>
<td>Ethanol</td>
<td>GOJO Industries, Inc.</td>
</tr>
</tbody>
</table>

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