Appendix 1: Sources for Alternatives Identified

The table below outlines the sources used to identify alternatives assessed for hazard traits in this report and the specific lists of alternatives outlined in those publications.

While this demonstration project focused on assessing the hazards of 11 potential alternatives to methylene chloride in paint stripping consumer products, there are roughly a dozen additional alternatives that could have been included as well. Resource limitations constrained the selection of alternatives for consideration in this demonstration project to those chemicals where GreenScreen® evaluations already existed from ToxServices or the Interstate Chemicals Clearinghouse (IC2) website—this project did not have the resources necessary to conduct new GreenScreen® assessments.

Actual applicants developing their Stage 1 report to comply with the California SCP regulations will need to explicitly describe where information about potential alternatives was obtained and reasons for including/excluding these alternatives in the assessment. In practice, lists of potential alternatives can be quickly screened for exclusion/inclusion based on high-level hazards (e.g., cancer or developmental/reproductive toxicity) using authoritative lists (for example, using the GreenScreen® List Translator http://www.greenscreenchemicals.org/method/greenscreen-list-translator). Those alternatives not excluded can be further assessed using the suite of hazard endpoints in GreenScreen®.

### TABLE 8
**Sources & Lists of Chemical Alternatives to Methylene Chloride-Based Paint Strippers**

<table>
<thead>
<tr>
<th>Source</th>
<th>Primary Chemical Alternatives* Outlined (Italicized = not included in this demonstration project)</th>
</tr>
</thead>
</table>
- Benzyl alcohol (CAS # 100-51-6)  
- Dibasic esters (CAS #'s 106-65-0, 1119-40-0, 627-93-0, and 95481-62-2)  
- Dimethyl sulfoxide (CAS # 67-68-5)  
- 1,3-Dioxolane (CAS # 646-06-0)  
- Caustic soda (CAS # 1310-73-2)  
- N-methyl-2-pyrrolidone (CAS # 872-50-4)  
Other alternatives noted for consumer/professional paint stripping applications (Table 5.12 of report) include:  
- Formic Acid (CAS # 64-18-6)  
- Acetone (CAS # 67-64-1)  
- Methanol (CAS # 67-56-1)  
- D-Limonene (CAS # 5989-27-5)  
- Xylene (CAS # 1330-20-7)  
- Phosphoric Acid (CAS # 7664-38-2)  
- 2-methoxymethylethoxypropanol (CAS # 7664-38-2)  
- Dipropylene glycol monoethyl ether (CAS # 15764-24-6)  
- 2-(2-butoxyethoxy) ethanol (CAS # 112-34-5)  
- methyl ethyl ketone (CAS # 78-93-3) |
- N-methyl-2-pyrrolidone (CAS # 872-50-4) |
- Dibasic esters (CAS #'s 106-65-0, 1119-40-0, 627-93-0, and 95481-62-2)  
- Acetone (CAS # 67-64-1)  
- Methanol (CAS # 67-56-1)  
- Toluene (CAS # 108-88-3)  
- Caustic soda (CAS # 1310-73-2)  
- N-methyl-2-pyrrolidone (CAS # 872-50-4) |
### Sources & Lists of Chemical Alternatives to Methylene Chloride-Based Paint Strippers (continued)

<table>
<thead>
<tr>
<th>Source</th>
<th>Primary Chemical Alternatives* Outlined</th>
</tr>
</thead>
</table>
• Dibasic esters (CAS #’s 106-65-0, 1119-40-0, 627-93-0, and 95481-62-2)  
• Acetone (CAS # 67-64-1)  
• Methanol (CAS # 67-56-1)  
• Toluene (CAS # 108-88-3)  
• Caustic soda (CAS # 1310-73-2)  
• N-methyl-2-pyrrolidone (CAS # 872-50-4) |
• Benzyl alcohol (CAS # 100-51-6)  
• Formic acid (CAS # 64-18-6)  
Formulation 2:  
• Dibasic ester (Dimethyl glutarate, CAS# 1119-40-0)  
• N-methyl-2-pyrrolidone (CAS# 872-50-4)  
• Propylene carbonate (CAS # 108-32-7)  
• Potassium hydroxide (CAS # 1310-58-3) |
• Dibasic esters (CAS #’s 106-65-0, 1119-40-0, 627-93-0, and 95481-62-2)  
• Acetone (CAS # 67-64-1)  
• Methanol (CAS # 67-56-1)  
• Toluene (CAS # 108-88-3)  
• Dimethyl sulfoxide (CAS # 67-68-5)  
• N-methyl-2-pyrrolidone (CAS # 872-50-4) |
• N-methyl-2-pyrrolidone (CAS # 872-50-4)  
• Dibasic esters (CAS #’s 106-65-0, 1119-40-0, 627-93-0, and 95481-62-2)  
• Toluene CAS # 108-88-3)  
• Acetone (CAS # 67-64-1)  
• Xylene (CA S# 1330-20-7)  
• Ketone mixtures  
• Furfuryl alcohol (CAS # 98-00-0) |
• N-methyl-2-pyrrolidone (CAS # 872-50-4) |
• Acetone (CAS # 67-64-1)  
• N-methyl-2-pyrrolidone (CAS # 872-50-4)  
• Methyl ethyl ketone (CAS # 78-93-3)  
• Tetrahydrofuran (CAS # 109-99-9)  
• 2-pyrrolidone (CAS 616-45-5) |

[Note these alternatives identified based on Hansen Solubility parameters]