### EPA Environmentally Preferable Purchasing Program Guidelines Pilot Assessment Summary - January 10, 2018

#### Product Category: Furniture

<table>
<thead>
<tr>
<th>Applicable Federal Requirements</th>
<th>Pre-Extraction/ Raw Materials (Hotspot(s))</th>
<th>Manufacturing Hotspot(s)</th>
<th>Installation Hotspot(s)</th>
<th>End of Life Hotspot(s)</th>
<th>Approaches to Chemicals</th>
<th>Section I: Process for Developing Standards</th>
<th>Section II: Conformity Assessment</th>
<th>Section IV: Ecolabel Management</th>
<th>Product Availability Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio-Pref CPG</td>
<td>Not Currently Assessed</td>
<td>Baseline</td>
<td>Leadership</td>
<td>Baseline</td>
<td>Leadership</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>How the Standard/ Ecolabel Meets the Hotspot:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>▶ = Required criterion</td>
<td>▶ O = Optional criterion</td>
<td>▶ = Not currently assessed</td>
<td>▶ = Not currently assessed</td>
<td>▶ = Not currently assessed</td>
<td>▶ = Not currently assessed</td>
<td>▶ = Not currently assessed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Does not meet OK: More stringent criteria</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Guidelines II.1 per Life Cycle Stage

- **Pre-Extraction/ Raw Materials (Hotspot(s))**
  - Energy Use, Fossil Fuel Use, Global Warming Potential, and/or Greenhouse Gas Emissions
  - Ozone Depletion Potential
  - Criteria Air Pollutants
  - Pollution Discharges to Water
  - Water Use
  - Waste Generation

- **Manufacturing Hotspot(s)**
  - ANSI/ BIFMA e3 – 2014 Furniture Sustainability Standard – level® certified
  - Cradle to Cradle Certified™ Product Standard
  - Good Environmental Choice Australia (GECA) Furniture, Fittings, and Foam
  - International Living Futures: Living Product Challenge™ 1.0
  - Sustainable Furnishings Council Exemplary
  - Sustainable Materials Rating Technology (SMaRT)
  - TÜV Rheinland® Green Product Mark

- **Installation Hotspot(s)**
  - ANSI/ BIFMA X7.1 Standard for Formaldehyde and TVOC Emissions
  - CDPH Standard Method 1.1-2010 for VOC Emissions
  - TB 117-2013-CA furniture flammability standard

- **End of Life Hotspot(s)**
  - Solid Waste Generation (e.g., design for disassembly, product take-back programs, remanufactured/repurpose capabilities, or minimizing disposal impacts)

- **Approaches to Chemicals**
  - 8.1 Toxic Hazards
  - 8.6 Disclosure of Chemical Substances
  - 8.7 Public Disclosure of Chemical Substances of Concern
  - Confirmed Voluntary Consensus Standard per OMB A-119
  - Accredited or conforming CAB is confirmed by EPA?

- **Recommended Multi-Attribute Standards and Ecolabels**
<table>
<thead>
<tr>
<th>Applicable Federal Requirements</th>
<th>Pre-Extraction/ Raw Materials Hotspot(s)</th>
<th>Manufacturing Hotspot(s)</th>
<th>Installation Hotspot(s)</th>
<th>End of Life Hotspot(s)</th>
<th>Approaches to Chemicals</th>
<th>Section I: Process for Developing Standards</th>
<th>Section II: Conformity Assessment</th>
<th>Section IV: Ecolabel Management</th>
<th>Product Availability Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio-Preferred CPG</td>
<td>Addresses Life Cycle Stage</td>
<td>Baseline</td>
<td>Leadership</td>
<td>Baseline</td>
<td>Leadership</td>
<td></td>
<td></td>
<td></td>
<td>No directory of certified products available at this time.</td>
</tr>
<tr>
<td></td>
<td>Not Currently Assessed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Recommended Single Attribute/ Single Material Standards and Ecolabels:**

- **Association for Contract Textiles NSF/ ANSI 336: Sustainability Assessment for Commercial Furnishings**
  - Yes

- **International Living Futures: Declare**
  - N/A

- **Global Recycled Standard, v3**
  - N/A

- **SCS Indoor Advantage™ for Furniture**
  - N/A

- **UL 2818 GREENGUARD Certification Program for Chemical Emissions For Building Materials**
  - N/A

**Specification(s):**

In addition to the Applicable Federal Program requirements and the Non-Federal Standards/Ecolabels, EPA Recommends the following specifications for furniture, where applicable:

- **Hazardous Flame Retardants**: Upholstered products shall meet Technical Bulletin 117-2013 (California’s furniture flammability standard) and must comply with the labeling requirements of California Senate Bill 1019, which was passed on September 30, 2014, and requires a label indicating whether the product contains or does not contain added Flame Retardants.

- **Indoor Air Quality/VOC Emissions**: Products shall meet the emissions requirements of BIFMA e3 criterion 7.6.2, or equivalent.