**Susterra® Propanediol—Polyurethanes**

**INCI Name:** 1,3-Propanediol  
**CAS Number:** 504-63-2  
**EINECS Number:** 207-997-3  

**Summary**  
The natural advantage.  
Susterra® bio-based propanediol is the building block that delivers high performance across a wide variety of polyurethane applications. It is an excellent bio-based polyol or chain extender for manufacturing urethanes. Based on the chemistry selected, the structural block of the final urethane can result in enhanced mechanical properties for the finished product.

**Benefits**  
- Improved flexibility and tear strength  
- Outstanding resilience  
- Excellent adhesion  
- Softness and transparency  
- Enhanced abrasion resistance  
- 100% USDA bio-based material, renewably and sustainably sourced

**Typical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>76.1</td>
</tr>
<tr>
<td>Hydroxyl Value</td>
<td>1475</td>
</tr>
<tr>
<td>Viscosity, cP (20°C)</td>
<td>49</td>
</tr>
<tr>
<td>Density (20°C)</td>
<td>1.053</td>
</tr>
<tr>
<td>Boiling Point (760 mmHg)</td>
<td>214.22°C / 417.60°F</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>-27.65°C / -17.77°F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>129°C / 264°F</td>
</tr>
<tr>
<td>Purity, wt%</td>
<td>99.7%</td>
</tr>
<tr>
<td>Water, % max</td>
<td>0.05%</td>
</tr>
<tr>
<td>Color, APHA max</td>
<td>15</td>
</tr>
</tbody>
</table>

**Purity Guarantee**  
Susterra® propanediol is made from fermentation of glucose and contains no added preservatives, petroleum-based ingredients, or animal by-products.

**Packaging**

- 18.1 kg (40 lb) Pails  
- 199.6 kg (440 lb) Drums  
- 997.9 kg (2,200 lb) Totes  
- Tank Trucks  
- ISO Tank Containers

**Storage Conditions and Expiration Date**  
Sealed containers should be stored within a temperature range of 0°– 50°C (32°–122°F). Containers can be resealed and stored within the same temperature range. Avoid prolonged exposure to oxygen and water. The use of nitrogen during storage is encouraged. If the seal is unbroken and the material has been stored according to the manufacturer’s recommendations, a 2 year shelf life can be expected.

**For additional information or samples:**  
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Customer Service  
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Loudon, TN 37774  
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www.duponttateandlyle.com