Zemea® Propanediol

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

Summary
Zemea® propanediol is a natural, skin-friendly alternative to petroleum-based glycols for liquid laundry detergents, liquid hand and automatic dish detergents, carpet and rug cleaners, hard surface cleaners, and glass cleaners. It functions well as an enzyme stabilizer or solvent.

Benefits
- Lack of skin irritation or sensitization
- Improved humectancy
- Good stability
- High purity
- Favorable environmental profile
- Enhanced clarity

Approvals
- USDA Certified Biobased Product
- U.S. EPA Design for Environment –
- The first DIE-screened solvent to be listed in CleanGredients®.
- Natural Products Association (NPA)
- Meets CA Air Resources Board LVP VOC solvent
- Health Canada – Natural Health Products Ingredient
- GMO Free
- Kosher, Halal, Vegan
- FDA GRAS Approved
- USP – NF & FCC

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>Low, Sweet</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Soluble</td>
</tr>
<tr>
<td>Viscosity, cP (20°C)</td>
<td>49</td>
</tr>
<tr>
<td>Density, g/ml (20°C)</td>
<td>1.053</td>
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<tr>
<td>pH</td>
<td>Neutral</td>
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<tr>
<td>Purity</td>
<td>99.8%</td>
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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.

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

For additional information or samples:
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