KOPCERIN (ETHYLHEXYLGlycerin) is a clear, colourless liquid with characteristic odour. It is a unique multifunctional additive for cosmetic preparation and globally accepted/approved substance. It acts as an effective emollient leading to an improved skin feeling with no stickiness after application.
**DESCRIPTION:**

Chemical Name: 3-[(2-Ethylhexyl)oxy]-1,2 propandiol  
INCI Name: Ethylhexylglycerin  
Trade Name: KOPCERIN  
CAS No.: 70445-33-9  
Molecular Formula: C_{11}H_{24}O_{3}

**INCORPORATING TIPS:**
- pH range 2-12  
- Hydrophilic-Lipophilic balance (HLB) value is 7.5  
- Leave-on and some rinse-off

**USE CONCENTRATION:**  
0.3 – 1.0%

**APPLICATIONS:**
- Multifunctional skin care additive for cosmetic formulations. Being an excellent emollient, Ethylhexylglycerin will compensate disadvantages of glycerin, such as slow penetration, tackiness or soaping (whitening during application) and also increase absorption of glycerin containing emulsions.
- Used to control microbial growth and effective against odour causing bacteria.
- Being an excellent moisturiser and effective against odour causing bacteria, finds use in wet wipes.
- Glycerin esters are attacked by lipolytic enzymes. However, ethylhexylglycerin is having glycerin ether structure. It acts as a booster of cosmetic alcohols and glycols.
- Being a safe ingredient, EHG can be an effective replacement for parabens.

**SPECIFICATION:**

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Clear, Colourless liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Density</td>
<td>950 – 0.960 g/mL</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1.449 – 1.453</td>
</tr>
<tr>
<td>Colour Index (Hazen)</td>
<td>30 max.</td>
</tr>
<tr>
<td>Ethylhexylglycerin (GC, Area %)</td>
<td>99.0% min.</td>
</tr>
</tbody>
</table>

**SOLUBILITY:**

- Propylene glycol: 30gm/100ml  
- Ethanol (105 in water): 0.2gm/100ml  
- Propylene glycol (10% in water): 0.2gm/100ml  
- Butylene glycol: >50gm/100ml  
- Glycerin: 1gm/100ml  
- Butylene glycol (10% in water): 0.2gm/100ml

**FORMULATORS CHOICE:**
- Skin care creams, lotions  
- Surfactant based products such as shower gels, bubble baths and shampoos  
- Deodorant sprays

**REGULATORY STATUS:**
- USA: Ethylhexylglycerin (Determined “Safe-as Used” by CIR)  
- Europe: INCI name: Ethylhexylglycerin  
- Australia: TGA Approved (Listed in AICS/NICNAS (NA/966))
- Canada: Listed in DSL  
- Japan: Listed on ENCS and CLS 1999

**SHELF LIFE:** 2 years

**STORAGE:** Store at room temperature. Avoid direct sunlight. Once opened, containers should be firmly re-sealed.