

# Zemea®\* the Natural Choice... Purity and Renewable Performance



**Zemea®**  
renewably sourced™ propanediol

## Hand Dishwashing Liquid (With LAS & AEOS Surfactant System)

INGREDIENT	WT, %
<b>Zemea® Propanediol</b>	<b>15.35%</b>
Linear Dodecyl Benzene Sulfonate	19.95%
Triethanolamine	6.14%
Cocamide DEA	10.74%
Tergitol 15-S-7	4.60%
Sodium Laureth-3EO Sulfate (28%)	4.60%
Coco Amido Propyl Betaine	7.67%
Polyquaternium-6 (20%)	3.07%
NaCl (25%)	1.53%
Sodium Xylene Sulfonate (40%)	6.55%
Water	19.19%
Lemon Essential Oil	0.58%
FD&C Yellow 5	0.03%
FD&C Red 40	0.01%

### Procedure

- Combine all liquid ingredients
- Stir contents at 70°C
- Gradually add LAS
- Stir until dissolved & clear
- Cool below 30°C
- Add fragrance and coloring



### Benefits of Zemea® Propanediol in Hand Dishwashing Liquids

- Very Good Stability
- Improved Foaming
- Excellent Cloud Point
- Requires Less Salt to Adjust Viscosity
- Corn Sugar-Derived Glycol
- Environmentally Sustainable
- Readily Biodegradable
- Excellent Moisturization Properties

#### For additional information or samples, please contact:

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