

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



Zemea® renewably sourced™ propanediol

Liquid Laundry Detergent

INGREDIENT	WT, %
Linear Dodecyl Benzene Sulfonate	6.93%
Coconut Fatty Acid (C12-C18)	7.52%
Tergitol 15-S-7	16.83%
Triethanolamine	7.52%
Zemea® Propanediol	10.89%
Citric Acid (50%)	6.33%
KOH (45%)	9.30%
Water	33.65%
Protease	0.69%
Amylase	0.20%
Lavender Essential Oil	0.10%
FD&C Blue 1	0.03%
FD&C Red 40	0.01%

Procedure

- Combine LAS, H₂O, TEA & Zemea®
- Stir at 70°C
- Add Tergitol
- Melt fatty acids and add
- Slowly add KOH
- Slowly add Citric Acid
- Cool below 30°C
- Add enzymes, fragrance and dye



Benefits of Zemea® Propanediol in Liquid Laundry Detergents

- Very Good Stability
- Excellent Cloud Point
- Very Good Enzyme Stability
- Corn Sugar-Derived
- Environmentally Sustainable
- Readily Biodegradable

For additional information or samples, please contact:

DuPont Tate & Lyle Bio Products Customer Service

In the US, Canada, or Mexico: 1-866-404-7933

Other Countries: ++001-217-421-3443

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