



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

Zemea™
renewably sourced™ propanediol

Hand Cleanser

PHASE	INGREDIENT	WT, %
A	Ammonium Lauryl Sulfate (ALS) (28%)	26.0
A	Cocamide DEA	6.0
A	Sodium Lauryl Sulfate (SLS) (25 %)	18.0
A	Zemea™ Propanediol	2.0
A	Water	44.5
A	Zemea™ Stearate	0.5
A	Irgasan	0.2
A	Tetrasodium EDTA (5 wt %)	2.0
A	Fragrance	QS
A	Citric acid (50 wt %)	QS

Procedure

- Blend ALS, Cocamide DEA, SLS and Zemea™ Propanediol
- Add Zemea™ Stearate
- Heat to 60° C.
- Cool to 30° C
- Add Irgasan and EDTA
- Stir until a homogeneous solution is formed
- Adjust to pH 6 with citric acid
- Add fragrance

Benefits of Zemea™ Propanediol in Hand Cleanser Formulations

- Highly Stable
- Higher Viscosity
- Excellent Foaming



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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