

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



**Zemea®**  
renewably sourced™ propanediol

## Deodorant Stick

PHASE	INGREDIENT	Wt, %
A	Zemea® Propanediol	60%
A	Water	31%
A	Sodium stearate	6.5%
A	PEG 400 monolaurate	2%
A	Triclosan	0.2%
A	Fragrance	QS

## Procedure

- Add together the Zemea® Propanediol, Water and PEG 400 Monolaurate
- Heat at 95°C and stir until solution is clear
- Add Sodium Stearate to the clear solution and stir until dissolved
- Reduce temperature to 90°C and add the Triclosan and fragrance
- Stir until homogenous
- Transfer to packaging at 75 - 80°C



## Benefits of Zemea® Propanediol in a Deodorant Stick

- Excellent stability
- Corn sugar-derived glycol
- Silky smooth feeling
- Excellent spreadability

## For additional information or samples, please contact:

DuPont Tate & Lyle Bio Products Customer Service  
In the US, Canada, or Mexico: 1-866-404-7933  
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On the web: [www.duponttateandlyle.com](http://www.duponttateandlyle.com)



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