

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



Zemea®
renewably sourced™ propanediol

General Purpose Carpet & Rug Cleaner Performance

(Sodium Lauryl Sulfate Surfactant)

PHYSICAL PROPERTIES

pH, 100%	8
pH, 10%	7
Viscosity, cPs @ 200C	5.71
Visual Viscosity	Water Thin
Freeze/Thaw Stability (-150/200C)	Pass
Heat Stability (500C), 30 days	Pass

Performance Evaluation

Stain removal of a **Zemea® propanediol** carpet & rug cleaner formulation and a similar propylene glycol carpet & rug cleaner formulation were tested using a stained carpet test specimen. The standard staining agents were applied by an independent professional testing laboratory. Each stain was individually cleaned and evaluated for stain removal efficiency by DuPont Tate & Lyle.

Conclusions: Zemea® Propanediol

- Can be successfully substituted for glycols in a carpet and rug cleaner.
- Formulations demonstrated comparable physical and performance properties.
- Formulations were stable to freeze/thaw and elevated temperature storage.

STAINING AGENTS

	BEFORE*	PG*	ZEMEA
1. Mustard			
2. Ketchup			
3. Hot Coffee (60° ± 3°C)			
4. Purple Grape Juice			
5. Black Permanent Ink			
6. Chocolate Syrup			
7. Dirty Motor Oil			
8. AATCC Synthetic Soil			

For additional information or samples, please contact:

DuPont Tate & Lyle Bio Products Customer Service

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