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



Zemea[®] renewably sourced[™] propanediol

Zemea® Natural Emulsion with Hitecream® 3000

PHASE	TRADE NAME	SUPPLIER	INCI NAME	%
A	Deionised Water		Aqua	72.65
	Zemea® Propanediol	DuPont Tate & Lyle	Propanediol	3.00
В	Hitecream® 3000	Sinerga	Potassium Palmitoyl Hydrolyzed Oat Protein,Behenyl Alcohol, Palm Glycerides, Sodium Stearoyl Glutamate, Sucrose Palmitate	8.00
	Sunflower Seed Oil	Henry Lamotte	Helianthus Annuus Seed Oil	8.00
	Palmerol® 1698	KLK Oleo	Cetyl Alcohol	2.00
	Cetiol OE	Cognis	Dicaprylyl Ether	4.00
	Dermofeel® Toco 70	Dr.Straetmans	Tocopherol, Helianthus Annuus Seed Oil	0.05
B1	Aromatic Tangerine Extract Ho826	Carrubba	Caprylic/Capric Triglyceride, Citrus Tangerina Extract, Limonene	1.00
С	Geogard 221	Lonza	Dehydroacetic Acid, Benzyl Alcohol, Water	0.80
D	Citric Acid (solution 20%)		Citric Acid	0.50
				100.00

Manufacturing Procedure

- 1. Mix phase A and heat up to 75°C.
- 2. Heat phase B to 75°C and add phase B1 shortly before emulsifying.
- 3. Emulsify phase B to phase A under stirring. Homogenize for 1 2 minutes.
- 4. Cool down to 40°C under stirring at moderate speed and add phase C.
- 5. Continue stirring at moderate speed and cool down to room temperature.
- 6. Adjust pH with phase D.

Product Features

Appearance: white emulsion pH: 5,5 - 6,0

Viscosity: ~ 20.000 mPas (Brookfield DV-II: spindle 6, speed 10) Storage Stability: 3 months at RT, 40°C, 4°C

(Prototype formula# H-N3-909 provided by Biesterfeld Spezialchemie GmbH.
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