



Zemea® Umbrella For Lashes

Water-resistant and Volume Mascara

Phase	Trade/Drug Name	INCI Name	Wt.%
A		Deionised Water	46.20
	Zemea®	Propanediol	3.00
A ₁	Keltrol® CG-SFT	Xanthan Gum	0.40
A ₂	CreaBlack® Super	CI 77499	10.00
A ₃	Saliguard® MEPX	Phenoxyethanol, Methylparaben, Ethylparaben	1.00
		Sodium Hydroxide (pellets 100%)	0.40
B	Palmera® B1802	Stearic Acid, Palmitic Acid	5.00
	Cutina GMS V	Glyceryl Stearate	3.50
	Bees Wax	Cera Alba	5.50
	DC SW-8005 C30 Resin Wax	C30-45 Alkyldimethylsilyl Polypropylsilsesquioxane	3.00
	Xiameter® PMX-200 Fluid 2 cs	Dimethicone	3.00
C	DC 680 ID Fluid	Polypropylsilsesquioxane, Isododecane	2.00
	Hybridur® 875 Polymer Dispersion	Polyurethane-2, Polymethyl Methacrylate	10.00
	Planoxia-RG	Aqua, Butylene Glycol, Panax Ginseng Root Extract	2.00
	Coloursphere® WL 40 Black HL	Styrene/Acrylates Copolymer, PEG 26-PPG 30 Phosphate, CI 77499	5.00
Total			100.00

Manufacturing Process

1. Heat phase A to 85°C while stirring.
2. Add and dissolve A1 while stirring then add A2 while stirring.
3. Add and dissolve A3 while stirring. Homogenize the complete waterphase.
4. Heat phase B to 85°C-90°C. Emulsify phase A slowly to phase B while stirring. Homogenize
5. Cool down to room-temperature and add the ingredients of phase C below 40°C in given order while stirring. Fill in container
6. Cool down to room temperature. Add ingredients of phase D below 40°C.

Prototype formulation provided by: Biesterfeld Spezialchemie GmbH., Zagreb, Croatia

Product Features:

1. Appearance: black and shiny emulsion.
2. Product benefit: long lasting, water resistant, volumizing.
3. Viscosity: 60000 - 10000 mpas (Brookfield DV-II: spindle 7, speed 10).
4. Storage stability: stable for more than 3 months at 20°C, 40°C and 4°.

For additional information or samples:

DuPont Tate & Lyle Bio Products Customer Service

198 Blair Bend Drive
Loudon, TN 37774

Tel: +1-866-404-7933

www.duponttateandlyle.com



Copyright © 2016 DuPont Tate & Lyle Bio Products Company, LLC. Zemea® is a registered trademark of DuPont Tate & Lyle Bio Products Company, LLC, for its brand of bio-based propanediol. All rights reserved.

This technical product information is presented in good faith and is believed to be accurate and reliable as of the date of publication. DuPont Tate & Lyle Bio Products makes no guarantee or warranty of any kind, expressed or implied, regarding the product or information contained herein. Purchaser assumes all risk and liability in acting on the information provided herein. It is the sole responsibility of the Purchaser to determine whether Zemea® propanediol is appropriate and suitable for the Purchaser's specific use and, as required, to obtain approval by appropriate regulatory authorities for such use. Statements concerning the use of Zemea® propanediol are not to be construed as recommendations, suggestions, or inducements to use it in the infringement of any patent or in violation of any applicable laws or regulations. DuPont Tate & Lyle Bio Products disclaims any liability for infringement of any patent by reason of customer's use of any products or information contained herein in combination with other materials or in any process. (10/2017)