



Eye Shadow

Phase	Ingredient	Wt. %
A	Deionized Water	44.15
	Keltrol F	0.20
	Veegum Regular Granules	2.00
	Disodium EDTA	0.10
	Triethanolamine 99%	0.50
	Zemea® Propanediol	10.00
	Lubrajel Oil	1.00
B	Isodecyl Neopentanoate	7.35
	Lipo GMS 450	2.00
	Behenyl Alcohol	0.50
	Myristyl Alcohol	0.50
	Cetyl Alcohol	0.50
	Stearic Acid	1.50
	Alcolec S	0.15
	Isostearyl Neopentanoate	5.00
Tocopheryl Acetate	0.05	
C	Allianz™ OPT	1.00
D	DC 345 Fluid·Cyclomethicone	7.50
E	Germaben 11-E	1.00
F	Cosmetic Russet C33-5138	0.60
	Cosmetic Yellow C33-1700	0.12
	Black Iron Oxide LC989	0.24
	Sericite PHN	0.24
G	Timica Sparkle 110P	13.80

Manufacturing Process

1. Combine Phase A ingredients into a uniform phase.
2. Combine Phase B ingredients and begin heating to 80°C.
3. Heat Phase A to 75-80°C.
4. Slowly add Phase B to Phase A and mix.
5. Add Phase C to the batch with mixing.
6. When the batch is uniform, begin cooling to 55° C.
7. Add Phase D and mix.
8. Add Phase E and mix until uniform.
9. Grind Phase F and add Phase G to Phase F.
10. Cool the main batch to 25°C; add Phase F and G and mix.

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

Benefits of Zemea® propanediol in Eye Shadow

- Excellent Stability
- Excellent Aesthetics
- Good Humectancy and Moisturization



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. (10/2016)