



### **Formulation sheet**

# **Deodorant stick**

Phase	Trade/drug name	INCI name	<b>Wt.%</b>
A	Deionized water	Aqua	18.00%
	Zemea <sup>®</sup> propanediol	Propanediol	45.00%
	Palmera G995EP	Glycerin	20.00%
В	Sodium hydroxide (sol.10%)	Sodium hydroxide	9.50%
С	Palmera B1802	Stearic acid, palmitic acid	6.00%
	Saliguard <sup>®</sup> EHG	Ethylhexylglycerin	0.75%
	Parf. Lively Feeling Nat Blend 0811009	Parfum	0.75%
	Total		100.00%

Procedure

#### Prototype formulation provided by: Biesterfeld Spezialchemie GmBH., Zagreb, Croatia

## **Product features**

- 1. Heat phase A to 85-95°C and stir until clear.
- 2. Add and dissolve phase B.
- 3. Add phase C little by little and stir until completely dissolved.
- 4. Add solution of phase D.
- 5. Add and dissolve perfume.
- 6. Pour into molds at 80-85°C.

- 1. Appearance: colorless (white), opaque
- 2. Stability: stable for more than 3 months at 20°C, 40°C and 4°C

## COVATION BIO PDO

For additional information or samples, please contact Customer Service.

198 Blair Bend Drive, Loudon, TN 37774 | Tel: +1-866-404-7933 | CovationBioPDO.com

Zemea\* is a registered trademark of Primient Covation LLC for its brand of bio-based propanediol marketed under the name CovationBio\* PDO. Copyright © 2023 Primient Covation LLC. All rights reserved. COV23\_2301-0256\_3-8473 (3/23)

This technical product information is presented in good faith and is believed to be accurate and reliable as of the date of publication. Primient Covation LLC 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. Primient Covation LLC 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.