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GLOBAL

# PERSONAL CARE

INGREDIENTS • FORMULATION • MANUFACTURE

This sun lotion formulation, using WARADUR® GE, was published in GLOBAL PERSONAL CARE, NOVEMBER 2021; p. 102 ([www.personalcaremagazine.com](http://www.personalcaremagazine.com)). Excerpt prepared by VOELPKER.

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## VOELPKER

SUN LOTION SPF 15

22-16-1-7

PHASE	INGREDIENTS	INCI NAME	% W/W
<b>A</b>	Deionised Water	Aqua	62.60
	Glycerine 99.5 % <sup>1</sup>	Glycerine	4.00
	Magnesium Sulphate <sup>2</sup>	Magnesium Sulphate	0.70
	Potassium Sorbate <sup>2</sup>	Potassium Sorbate	0.50
	Citric Acid <sup>2</sup>	Citric Acid	0.20
<b>B</b>	Waradur <sup>®</sup> GE <sup>3</sup>	Glyceryl Montanate	0.60
	Hydrogenated Rapeseed Oil <sup>4</sup>	Hydrogenated Rapeseed Oil	0.90
	Dermofeel <sup>®</sup> PGPR <sup>5</sup>	Polyglyceryl-3 Polyricinoleate	5.00
	Tegosoft <sup>®</sup> CT <sup>6</sup>	Caprylic/Capric Triglyceride	5.00
	Cosmacol <sup>®</sup> ESI <sup>7</sup>	Tridecyl Salicylate	5.00
	Cosmacol <sup>®</sup> OE <sup>7</sup>	Dicaprylyl Ether	5.00
	Solaveil <sup>™</sup> XT-300-LQ-(WD) <sup>8</sup>	Titanium Dioxide (and) Caprylic/ Capric Triglyceride (and) Polyhy-droxystearic Acid (and) Stearic Acid (and) Alumina	10.00
<b>C</b>	Cotton Water E_1407987 <sup>9</sup>	Fragrance	0.50

**Procedure:** Heat Phases A and B to 80°C. Slowly add Phase A slowly into Phase B while stirring. Homogenise for 1 minute with the SilentCrusher/ Ultra-Turrax<sup>®</sup> at 20,000 rpm. Allow to cool down while stirring with the IKA paddle stirrer at 300 rpm. Add Phase C at a temperature of below 40°C and homogenise for 1 minute with the SilentCrusher/ Ultra-Turrax<sup>®</sup> at 20,000 rpm. The sun lotion is now ready for packaging.

### Properties

Appearance: white, soft W/O emulsion

Viscosity (Brookfield DV3T, spindle 6/speed 10/time 30 s): 18,900 mPas

Centrifugation (15 min at 4,000 rpm): no separation

Suppliers: 1. AOT 2. Inter-Harz 3. Voelpker 4. Henry Lamotte 5. Dr. Straetmans 6. Evonik 7. Sasol 8. Croda 9. Mane

