

Guide Formulation

# LIGHTWEIGHT SUNSCREEN SPF\* 15 WITH AEROSIL® R 974 AND SPHERILEX® 10 PC

\*via in-vitro SPF measurement

Phase	Ingredients	FUNCTION	% w/w
<b>A</b>	PARSOL® 1789 (Avobenzonone)	UVA filter	3.00
	PARSOL® HMS (Homosalate)	UVB filter	10.00
	PARSOL® 340 (Octocrylene)	UVA/UVB filter	5.00
	PARSOL® EHS (Ethylhexyl Salicylate)	UVB filter	3.00
	<b>TEGOSOFT® XC MB</b>	Emollient	10.00
	<b>DERMOFEEL® SENSOLV MB</b>	Emollient	11.00
	<b>TEGOSOFT® TN</b>	Emollient	3.00
	<b>ISOLAN® GPS</b>	Emulsifier	2.50
	<b>TAGAT® CH 40</b>	Stabilizer	0.50
	<b>DERMOFEEL® TOCO 70 non-GMO</b>	Antioxidant	0.50
<b>B</b>	<b>TEGOSOFT® DEC MB 6.00</b>	Emollient	6.00
	<b>AEROSIL® R 974</b>	Thickener, Emulsion stabilizer, SPF booster	3.00
<b>C</b>	Water	Water	a.d. 100
	Glycerin	Humectant	5.00
	EDTA	Chelating agent	0.20
	<b>DERMOSOFT® OMP</b>	Preservative	2.00
<b>D</b>	<b>SPHERILEX® 10 PC</b>	Sensory modifier	1.50
<b>E</b>	5% NaOH in aq.	pH modifier	q.s.

## PROCESSING

- Mix phase A at 85°C until filters are thoroughly dispersed (approx. 5-15 minutes).
- Prepare phase B.
- Add phase B to phase A and mix using moderate shear.
- Prepare phase C.
- Adjust pH of water phase to approx. 7.1 using 5% NaOH.
- Add water phase dropwise to oil phase under moderate to high shear mixing.
- Add SPHERILEX® 10 PC under moderate shear.

## REMARKS

**Appearance:** White, cream  
**In vitro SPF:** 15  
**Viscosity:** 7950 cP @ 6 RPM  
**Stability Status:** Proven

**EUROPE / MIDDLE-EAST / AFRICA****Evonik Operations GmbH**

Smart Effects business line  
 Rodenbacher Chaussee 4  
 63457 Hanau  
 Germany

[ask-se@evonik.com](mailto:ask-se@evonik.com)

[www.evonik.com](http://www.evonik.com)

[www.evonik.com/smarteffects](http://www.evonik.com/smarteffects)

**AMERICAS****Evonik Corporation**

Smart Effects business line  
 2 Turner Place  
 Piscataway, NJ 08804  
 USA

[ask-se-america@evonik.com](mailto:ask-se-america@evonik.com)

**ASIA/PACIFIC****Evonik (SEA) Pte. Ltd.**

Smart Effects business line  
 3 International Business Park  
 #07-18, Nordic European Centre  
 Singapore 609927

[ask-se-asia@evonik.com](mailto:ask-se-asia@evonik.com)

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