

Guide Formulation

# SOUFFLÉ VISAGE SPF 50

UV-DE-16-107-1-3

Phase	Ingredients	INCI Name	% w/w	Function
<b>A</b>	Cetiol® CC (BASF)	Dicaprylyl Carbonate	3.00	Emollient
	Cetiol® B (BASF)	Dibutyl Adipate	1.50	Emollient
	Preservative		q.s.	Preservative
	Uvinul® MC 80 (BASF)	Ethylhexyl Methoxycinnamate	8.50	UV-B filter
	Uvinul® A Plus (BASF)	Diethylamino Hydroxybenzoyl Hexyl Benzoate	7.50	UV-A filter
	Neo Heliopan OS	Ethylhexyl Salicylate	4.50	UV-B filter
	Tinosorb® S (BASF)	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	2.00	Broad spectrum UV filter
	Uvinul® T 150 (BASF)	Ethylhexyl Triazine	2.00	UV-B filter
<b>B</b>	Xiameter PMX-200 Silicone Fluid 2CS	Dimethicone	24.00	Emollient
	DOWSIL 9041 Silicone Elastomer Blend	Dimethicone, Dimethicone Crosspolymer	8.00	Skin feel modifier
	Cetiol® Ultimate (BASF)	Undecane, Tridecane	4.96	Emollient
	<b>AEROSIL® 200</b>	<b>Silica</b>	<b>2.00</b>	<b>Rheology modifier</b>
<b>C</b>	Talc	Talc	13.50	Skin feel modifier
	Z-Cote® (BASF)	Zinc Oxide (nano)	8.50	Broad spectrum UV filter
	<b>AEROSIL® R 974</b>	<b>Silica Dimethyl Silylate</b>	<b>3.00</b>	<b>SPF booster, Rheology modifier</b>
	Timica® Terra White MN4501 (BASF)	Mica, Titanium Dioxide	0.25	Effect pigment
	Timica® Terra Yellow MN4502 (BASF)	Mica, Iron Oxides, Titanium Dioxide	0.35	Effect pigment
	Timica® Terra Red MN4506 (BASF)	Mica, Iron Oxides, Titanium Dioxide	0.08	Effect pigment
	Timica® Terra Black MN4498 (BASF)	Mica, Iron Oxides, Titanium Dioxide	0.05	Effect pigment
<b>D</b>	Water, demin	Aqua	3.49	
	Cosmedia® SP (BASF)	Sodium Polyacrylate	0.05	Stabilizer
<b>E</b>	Dow Corning 9701 Cosmetic Powder	Dimethicone/Vinyl Dimethicone Crosspolymer, Silica	2.50	Skin feel modifier
	Vitamin E-Acetate Care	Tocopheryl Acetate	0.27	Active ingredient
		<b>Total</b>	<b>100</b>	

## PROCESSING

- Heat part A at 80°C while stirring.
- Prepare part B (add AEROSIL® slowly at the end when the elastomer is dissolved in Cetiol® and Xiameter
- Add part C one by one in part A under high shear force (rotor stator). Add AEROSIL® at the end while stirring with low shear forces. Do not use rotor stator.
- Add B in AC while stirring with rotor stator.
- Combine ingredients of D. Add D and E to ABC while stirring with rotor stator.

## SPECIFICATIONS

Appearance: beige paste

## PERFORMANCE

SPF in silico: 50 (BASF Sunscreen Simulator in silico determination of the sun protection factor)

UVA-PF in vitro: 19.0 (BASF internal method Nr. 55 determination of the in vitro SPF & UVA Protection Factor (UVA PF))

**NOTE:** All formulations have been subjected to stability tests and have been shown to perform well. However, formulators should always perform their own stability tests when adapting formulations and / or using raw materials from other sources.

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