AEROSIL®

Guide Formulation

DRY SENSATION PROTECTING OIL SPF 30

UV-DE-16-180-2-2

Phase	Ingredients	INCI Name	% w/w	Function
A	Cetiol® 4 All (BASF)	Dipropylheptyl Carbonate	25.00	Emollient
	Cetiol® Sensoft (BASF)	Propylheptyl Caprylate	10.00	Emollient
	Cetiol® CC (BASF)	Dicaprylyl Carbonate	10.00	Emollient
	Cetiol® OE (BASF)	Dicaprylyl Ether	10.00	Emollient
	Cosmedia® DC (BASF)	Hydrogenated Dimer Dilinoleyl Dimethylcarbonate Copolymer	2.00	Film forming agent
	Uvinul® A Plus (BASF)	Diethylamino Hydroxybenzoyl Hexyl Benzoate	7.00	UV-A filter
	Uvinul® MC 80 (BASF)	Ethylhexyl Methoxycinnamate	10.00	UV-B filter
	Tinosorb® S (BASF)	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	2.50	Broad spectrum UV filter
	Neo Heliopan OS	Ethylhexyl Salicylate	5.00	UV-B filter
B	**AEROSIL® R 974**	**Silica Dimethyl Silylate**	**3.50**	**SPF booster, Rheology modifier**
C	Cetiol® Ultimate (BASF)	Undecane, Tridecane	15.00	Emollient
		Total	**100**	

PROCESSING

- Prepare Phase A and heat to 80°C.
- Add Phase B under vigorous stirring.
- Cool down to room temperature.
- Below 60°C add Phase C. Oil will become transparent.

SPECIFICATIONS

Viscosity: 100-300 mPa*s (Brookfield; DV III+; spindle LV1; 10 rpm; 25°C)

PERFORMANCE

SPF in silico: 30 (BASF Sunscreen Simulator in silico determination of the sun protection factor)
SPF in vivo: 35 (ISO 24444-In vivo determination of the sun protection factor)
UVA-PF in vitro: 10.7 (BASF internal method Nr. 55 determination of the in vitro SPF & UVA Protection Factor (UVA PF))
WR %: 65 (COLIPA, December 2005 - Water resistance)

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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