

Dry Sensation Protecting Oil SPF 30

UV-DE-16-180-2-2

Created by BASF. The formulation has been developed in order to give general guidance only. It does not constitute any guarantee or warranty.

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	Rheology modifier
C	Cetiol® Ultimate (BASF)	Undecane, Tridecane	15.00	Emollient
		Total	100.00	

Processing

- Prepare part A and heat to 80°C.
- Add phase B while stirring.
- Let cool down to RT. Liquid is not clear!
- Below 60°C add phase C while stirring.
- After addition of phase C → Clear Oil.

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Specifications

Viscosity: 100-300

(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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