

Guide Formulation

DRY TOUCH WET SKIN OIL SPF 50

UV-DE-18-036-1-4

Phase	Ingredients	INCI Name	% w/w	Function
A	Cetiol® C 5 (BASF)	Coco Caprylate	5.50	Emollient
	Cetiol® B (BASF)	Dibutyl Adipate	15.00	Emollient
	Cetiol® OE (BASF)	Dicaprylyl Ether	15.00	Emollient
	Cetiol® Sensoft (BASF)	Propylheptyl Caprylate	10.00	Emollient
	Neo Heliopan OS	Ethylhexyl Salicylate	5.00	UV-B filter
	Uvinul® T 150 (BASF)	Ethylhexyl Triazone	4.00	UV-B filter
	Uvasorb HEB	Diethylhexyl Butamido Triazone	2.50	UV-B filter
	Uvinul® A Plus (BASF)	Diethylamino Hydroxybenzoyl Hexyl Benzoate	10.00	UV-A filter
	Tinosorb® S (BASF)	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	4.50	Broad spectrum UV 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: 20-60 mPa*s (Brookfield; DV III+; spindle LV1; 10 rpm; 25°C)

PERFORMANCE

SPF in silico: 55 (BASF Sunscreen Simulator in silico determination of the sun protection factor)

SPF in vivo: 65 (ISO 24444-In vivo determination of the sun protection factor)

UVA-PF in vitro: 17.0 (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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