



Reference Formula

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全物理性防曬棒SPF50+★★★

EP-CC-F-0070A_V1

FORMULA

Phase	Ingredient (Trade Name)	Ingredient (INCI Name)	% By Weight	Function
O1	ERCAREL AB¹⁴	C12-C15 Alkyl Benzoate	5.00%	Emollient
	2-EHP	2-Ethylhexyl Palmitate	12.00%	Emollient
	ERCAREL IPP V¹⁴	Isopropyl Palmitate	12.00%	Emollient
	Performalene™ M 80 Wax⁹	Synthetic Wax	4.00%	Thickener
	KAHL WAX 2039 ^F	Candelilla Wax	2.00%	Thickener
	Beeswax Care 146¹¹	Cera alba	5.00%	Thickener
	Paracera™ M¹¹	Paraffin; Cera Microcristallina	6.00%	Thickener
	Performacol™ 425 Alcohol⁹	C20-40 Alcohols	3.00%	Thickener
	Performa V™ 343 Polymer⁹	Synthetic Wax	0.50%	Emollient
	PMX-200 Silicone Fluid 5 cSt¹	Dimethicone	4.00%	Emollient
P.P	Propyl Paraben	0.20%	Preservative	
O2	Olivem 900³	Sorbitan Olivatate	3.00%	Stabilizer
A	ERCAREL AB¹⁴	C12-C15 Alkyl Benzoate	16.80%	Dispersant
	HallBrite® BHB³	Butyloctyl Salicylate	4.00%	Dispersant
	Parsol TX²	Titanium Dioxide, Silica, Dimethicone	10.00%	UV Filer Agent
	Parsol ZX²	Zinc Oxide, Triethoxycaprilylsilane	7.00%	UV Filer Agent
	ES-5300 Formulation Aid¹	Lauryl PEG-10 Tris(trimethylsiloxy)silylethyl Dimethicone	4.00%	Dispersant
	dl-α-Tocopheryl Acetate²	Tocopheryl Acetate	0.50%	Anti-oxidant
B	VALVANCE™ Touch 210²	Silica	1.00%	Skin feel modifiers

Suppliers: 1. Dow Chemical; 2. DSM; 3. HallStar; 9. New Phase Technologies; 11. Paramelt; 14. ErcaWilmar; F. KAHL.

Recommendations contained, herein this Reference Formula, are advisory only.

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PROCEDURE

1. Prepare Phase O1 by heating to 100°C until melting.
2. Mix Phase O1 and cool down to 90°C.
3. Add Phase O2 to Phase O1.
4. Heat and mix Phase O1+O2.
5. Prepare Phase A and add to the main tank.
6. Heat and mix, then add Phase B to the main tank.
7. Heat and mix, then packing.

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