

Pure physical sunscreen spray (RB2411901)

OLP-6300 5% + OLP-3100 5% + OLI-2902 0.2%

Cellpolypid® PMB-8100E 2%

Phase	Trade Name	INCI Name	Supplier	Dosage (%)
A	WATER	WATER		36.33
	XANTHAN GUM	XANTHAN GUM		0.07
	GLYCERIN	GLYCERIN		2.00
	1,3 BUTYLENE GLYCOL	BUTYLENE GLYCOL		3.00
B1	OLP-6300 Cellpolypid® UV Attenuation Titanium Dioxide	TITANIUM DIOXIDE & POLYQUATERNIUM-51 & STEARIC ACID & ALUMINUM HYDROXIDE	OLI	5.00
	M-318/GTCC	CAPRYLIC/CAPRIC TRIGLYCERIDE		5.00
	TEGOSEFT-TN	C12-15 ALKYL BENZOATE		4.00
	OLP-3100 Cellpolypid® Zinc Oxide	ZINC OXIDE & POLYQUATERNIUM-61 & TRIETHOXYCAPRYLYLSILANE	OLI	5.00
B2	GLTDIP® PA200	POLYHYDROXYSTEARIC ACID		1.00
	IP CLEAN LX	ISODODECANE		18.00
	TEGOSOFT-TN	C12-15 ALKYL BENZOATE		10.00
	SILSOFT 034	CAPRYLYL METHICONE		2.00
	Montanov L	C14-22 ALCOHOLS & C12-20 ALKYL GLUCOSIDE		1.50
	S 165	GLYCERYL STEARATE & PEG-100 STEARATE		0.20
C	CETEARYL ALCOHOL	CETEARYL ALCOHOL		0.20
	WATER	WATER		2.00
	OLI-2902	DIPOTASSIUM GLYCYRRHIZATE	OLI	0.20
	1,2-HEXANEDIOL	1,2-HEXANEDIOL		2.00
	HYDROXYACETOPHENONE	HYDROXYACETOPHENONE		0.50
	Cellpolypid®-PMB 8100E WATER & POLYQUATERNIUM-51 & 1,2-HEXANEDIOL	OLI	2.00	

Process:

- 1 Add pre-dispersed humectants and thickeners to the main pot, add the remaining **phase A** raw materials, target 80 °C, turn on stirring and disperse evenly, keep warm;
- 2 Mix the **phase B1** phase raw materials evenly, grind 3 times with a three-roller grinder, and set aside;
- 3 The **phase B2** is mixed evenly, heated and dissolved until it is uniform and free of granules, the pre-dispersed **phase B1** is added, mixed evenly, and kept warm to 80 °C.

- The main pot turns on the vacuum and low-speed homogenization, slowly draws in the raw materials of **phase B**, and
- 4 after all the **phases B** are added to the main pot, the high-speed homogenization is turned on, and the temperature is cooled after emulsification for 7 minutes;
 - 5 At about 40 °C, add **phase C** raw materials and homogenize at low speed for 2 minutes;

Note: The formula is for reference only, any concern regarding the formula stability & patent, test and/or varification maybe needed by your organization.

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