

Sunblock Gel Stick for Face

ASC 25-28-2

This solid sunblock gel stick is oil-free, wax-free, and silicone-free with an estimated SPF rating of 15. It features a pair of low molecular weight amino acid-derived gelling agents that trap various emollients forming a tight network.

	Trade Name	Supplier	INCI Name	% w/w	Function
A.	Gelatinization Agent GP-1	Ajinomoto N.A., Inc	Dibutyl Lauroyl Glutamide	2.4	Oil gelling agent
	Gelatinization Agent EB-21	Ajinomoto N.A., Inc	Dibutyl Ethylhexanoyl Glutamide	1.6	Oil gelling agent
	Risonol 20SP	Kokyu Alcohol Kogyo Co., Ltd.	Octyldodecanol	16.0	Initial solvent
B.	Schercemol 185 Ester	Lubrizol / Noveon	Isostearyl Neopentanoate	15.00	Emollient ester
	Eldew SL-205	Ajinomoto USA, Inc	Isopropyl Lauroyl Sarcosinate	7.00	Light emollient ester
	Eldew PS-306	Ajinomoto USA, Inc	Phytosteryl / Behenyl Octyldodecyl Lauroyl Glutamate	5.00	Amino-acid derived emollient, pseudo-ceramide, stability
	Schercemol DISM Ester	Lubrizol / Noveon	Diisostearyl Malate	6.00	High MW ester, stability
	Schercemol DISD Ester	Lubrizol / Noveon	Diisostearyl Dimer Dilinoleate	6.00	High MW ester, stability
	Stepan IPP	Stepan	Isopropyl Palmitate	7.00	Light emollient
	Liponate NEB	Lipo Chemicals, Inc	C12-15 Alkyl Benzoate	11.00	Light emollient
	Lipocol C	Lipo Chemicals, Inc	Cetyl Alcohol	1.00	Hardness increase
	Oryza Squalane	Oryza Oil & Fat Co	Squalane	1.00	Emollient
	Oryza Tocotrienol	Oryza Oil & Fat Co	Tocotrienol	0.10	Antioxidant
	Astaxanthin 5C	Oryza Oil & Fat Co	Caprylic/Capric Triglyceride, Haematococcus Pluvialis Extract, Astaxanthin, Tocopherol	0.04	Antioxidant
C.	Schercemol 105 Ester	Lubrizol / Noveon	Isodecyl Neopentanoate	10.66	Emollient, pigment dispersion
	Covascreen Ti	Sensient Cosmetic Technologies	Anatase Titanium Dioxide, Hydrogenated polyisobutene, Hydrogenated castor oil monohydroxystearate, Polyoxypropylene cetyl ether phosphate, Trimethoxycaprylylsilane	5.00	Sunblock agent
	Covascreen Zn	Sensient Cosmetic Technologies	Zinc Oxide, Hydrogenated polyisobutene, Hydrogenated castor oil monohydroxystearate, Polyoxypropylene cetyl ether phosphate, Trimethoxycaprylylsilane	5.00	Sunblock agent
D.	Fresh Marine Fragrance	Bell Fragrances	Fragrance	0.20	Scent

Procedure: Heat Phase A to 115 °C, mix until dissolved, cool to 90°C, then add to the heated to 90°C Phase B, mix thoroughly while maintaining temperature. Slowly add mixed Phase C, then Phase D. Maintain temperature around 80°C and pour into molds, then let cool to room temperature.

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