

Formula Name : Sun Gel Mist

Lot.No.57-PRS-100

(NIKKOL Nikkomulose SE-WR: 3.5%)



<https://www.chemical-navi.com/>

INCI NAME	TRADE NAME	ROLE/FEATURE	SUPPLIER	wt%
A				
(Please contact us)	NIKKOL Nikkomulose SE-WR	Emulsifier	NIKKO CHEMICALS	3.5000
B				
Potassium Hydroxide, Water	(1% aq.)	Neutralizer		6.0000
Butylene Glycol		Moisturizer		6.0000
Alcohol		Freshener		5.0000
Disodium EDTA		Chelating agent		0.0500
Water				52.4500
C				
Methyl Methacrylate Crosspolymer, HDI/Trimethylol Hexyllactone Crosspolymer	UP-611	Texturizer	Toshiki Pigment	3.0000
D				
Isododecane	Permethyl 99A	Emollient agent	NIHON KOKEN KOGYO	1.0000
Dimethicone	KF-96A-6cs	Emollient agent	Shin-Etsu Chemical	1.0000
Ethylhexylglycerin, Glyceryl Caprylate	NIKKOL Nikkoguard 88	Antimicrobial agent	NIKKO CHEMICALS	0.4000
E				
Ethylhexyl Methoxycinnamate	Uvinul MC80	UV filter	BASF	11.0000
Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	Tinosorb S	UV filter	BASF	4.5000
Propylene Glycol Dicaprate	NIKKOL PDD	Solvent	NIKKO CHEMICALS	3.0000
Tocopherol		Antioxidant		0.1000
F				
(Please contact us)	ARON AC-1000	Film former	NIKKO CHEMICALS	3.0000
			Total	100.0000
Procedure				
1. Stir B and D separately until uniform at room temperature.				
2. Heat E to 80°C and dissolve completely, then cool it down to room temperature.				
3. Add C into B and disperse C until uniform, then add A into B+C and mix until uniform by homogenizer.				
4. While stirring A-C by homogenizer, add D and E into A-C and emulsify at room temperature for a certain period of time.				
5. Add F into A-E and mix until uniform.				
Physical Properties			Stability	
Initial viscosity (B type Viscometer, No.4 6rpm, 30sec.): 24,400 mPa · s			▪ RT, 45°C, 5°C: Confirmed for 3 months	
pH (bulk): 8.0			▪ 50°C, -5°C, Cycle (-5↔45°C): Confirmed for 1 month	

20230320-1

We do not guarantee the stability of the final products of formulations in this brochure though the stability was checked under certain conditions.

We do not guarantee the preservation property of this formulation as we have not checked it.

We do not guarantee that this formulation does not conflict with any patent.

It is users' responsibility to determine the suitability for their own use of the formulation.