

**Formula Name : Brightening Aqua-Gel Sunscreen**

Lot.No.57-HSS-4

(NIKKOL Nikkomulse 41: 4.0%, AUROVISCO™ CS: 7.5%)


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

INCI NAME	TRADE NAME	ROLE/FEATURE	SUPPLIER	wt%
<b>A</b>				
Ethylhexyl Methoxycinnamate	Uvinul MC80	UV filter	BASF	7.5000
Ethylhexyl Triazone	UVINUL T 150	UV filter	BASF	3.0000
Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	TINOSORBR S	UV filter	BASF	3.0000
Diethylamino Hydroxybenzoyl Hexyl Benzoate	Uvinul A Plus Granular	UV filter	BASF	3.5000
Polysilicone-15	PARSOL SLX	UV filter	DSM	1.5000
Diisopropyl Adipate	NIKKOL DID	Emollient agent, Solvent	NIKKO CHEMICALS	3.0000
Diphenylsiloxy Phenyl Trimethicone	KF-56A	Emollient agent	Shin-Etsu Chemical	5.0000
Dimethicone	KF-96A-6cs	Emollient agent	Shin-Etsu Chemical	1.0000
Stearyl Alcohol	STEARYL ALCOHOL	Viscosity modifier, Stabilizer	Kokyu Alcohol Kogyo	1.0000
Behenyl Alcohol, Polyglyceryl-10 Pentastearate, Sodium Stearoyl Lactylate	NIKKOL Nikkomulse 41	Emulsifier	NIKKO CHEMICALS	4.0000
<b>B</b>				
(Please contact us)	AUROVISCO™ CS	Thickene, Stabilizer	NIKKO CHEMICALS	7.5000
Hydroxyethylcellulose, Water	HEC SE900 (1% aq.)	Thickener	Daicel	3.5000
Propanediol		Moisturizer, Solvent		5.0000
Phenoxyethanol		Antimicrobial agent		0.4000
Water, Citric Acid	(1% aq.)	pH adjuster		2.0000
Water				41.6000
Sodium Methyl Stearoyl Taurate	NIKKOL SMT	Emulsifier	NIKKO CHEMICALS	0.5000
<b>C</b>				
Glycyrrhiza Glabra (Licorice) Root Extract, Scutellaria Baicalensis Root Extract, Morus Alba Root Extract, Zizyphus Jujuba Fruit Extract, Zizyphus Jujuba Fruit Extract, Artemisia Capillaris Flower Extract, Butylene Glycol, Water	BOTANICAL EXTRACT COMPLEX B	Brightening	Maruzen Pharmaceuticals	1.0000
Butylene Glycol, Water, Angelica Acutiloba Root Extract	JAPANESE ANGELICA ROOT EXTRACT BG-J	Brightening	Maruzen Pharmaceuticals	1.0000
Water				5.0000
			Total	100.0000
<b>Procedure</b>				
1. Heat A to 80°C and dissolve completely.				
2. Heat B to 80°C and mix with homogenizer until uniform.				
3. Add A into B while mixing with homogenizer.				
4. Cool down to 35°C with mixing, then add C and mix well until uniform.				
<b>Physical Properties</b>			<b>Stability</b>	
Initial viscosity (B type Viscometer, No.4 6rpm, 30sec.) : 31400 mPa · s			· RT, 45°C, 5°C : Confirmed for 3 months	
pH(bulk) : 5.9			· 50°C, -5°C, Cycle(-5⇄45°C) : Confirmed for 1 month	

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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 do 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.