

O/W Sunscreen Cream TG23-WUV

Sunscreen cream incorporating **PRODEW™ 700** for skin caring benefits.

	Trade Name	INCI Name	wt%	Function
A	Polyaqual 2W *1	Polyglyceryl-2 Stearate, Glyceryl Stearate, Stearyl Alcohol	3.0	Emulsifier
	Polyaqual LW *1	Polyglyceryl-4 Laurate, Polyglyceryl-6 Laurate	1.0	Emulsifier
	KALCOL 6850 *2	Cetearyl Alcohol	1.0	Emollient
	NIKKOL DIS *3	Diisopropyl Sebacate	6.3	Emollient
	Tinosorb S *4	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	1.0	UV absorber
	Uvinul A Plus Granular *5	Diethylamino Hydroxybenzoyl Hexyl Benzoate	1.0	UV absorber
	Uvinul T-150 *4	Ethylhexyl Triazone	1.5	UV absorber
	SEPIPLUS 400 *5	Polyacrylate-13, Polyisobutene, Polysorbate 20, Water	1.0	Emulsifier
	Dowsil SH200 C Fluid 20cs *6	Dimethicone	0.1	Emollient
	Tocopherol	Tocopherol	0.1	Antioxidant
B	1, 3-BG	Butylene Glycol	4.0	Humectant
	Preservative	Preservative	q.s.	Preservative
	Water	Water	balance	Solvent
C	1, 3-BG	Butylene Glycol	9.0	Solvent
	Polyaqual VO4 *1	Polyglyceryl-4 Oleate, Polyglyceryl-6 Oleate, Polyhydroxystearic Acid	1.0	Dispersing agent
	Polyaqual LW *1	Polyglyceryl-4 Laurate, Polyglyceryl-6 Laurate	1.5	Dispersing agent
	Hostaphat KL 340D *7	Trilaureth-4 Phosphate	0.05	Dispersing agent
	FINEX 33W-LP2 *8	Zinc Oxide, Hydrated Silica, Hydrogen Dimethicone	5.0	UV scattering agent
D	STR 100C-LP *8	Titanium Dioxide, Aluminum Hydroxide, Hydrogen Dimethicone	5.0	UV scattering agent
E	Sodium Hyaluronate 1% aq. (Hyaluronic Acid FCH-120 *9)	Sodium Hyaluronate, Water	1.0	Humectant
	Water	Water	3.0	Solvent
F	PRODEW™ 700 (50%)	Sodium PCA, Sodium Polyaspartate, Butylene Glycol, Betaine, Zinc PCA, Sodium Citrate, Arginine, Serine, Lysine HCl, Glutamic Acid, Water	1.0	Skin conditioning, Moisturizer, Sebum control, Adhesion improver
	Water	Water	3.0	Solvent
Total			100	

*1 Innovacos, *2 Kao, *3 Nikko Chemicals, *4 BASF, *5 SEPPIC, *6 Dow, *7 Clariant, *8 Sakai Chemical Industry, *9 Kikkoman Biochemifa

<PROCEDURE>

- Mix part C uniformly, then add part D and mix by hand, and disperse part (C+D) with a roller mill 3 times.
- Mix part E uniformly, then add part (C+D) and disperse at r.t. (1,500 rpm, 5 mins).
- Heat and dissolve part A and part B at 75 °C respectively.
- Slowly add part B into part A with stirring and mix with a dispersing mixer (1,000 rpm), then cool to 40 °C or less.
- Add part (C+D+E) into part (A+B) and mix with a dispersing mixer (1,000 rpm).
- Add part F into part (A+B+C+D+E) and mix with a dispersing mixer (1,000 rpm).
- Cool to r.t by stirring with a paddle mixer (150 rpm).

<PHYSICAL PROPERTIES and STABILITY>

Appearance : Cream

Viscosity : 39,330 mPa·s (B-Type, Rotor No. M4, 30 rpm, 30 sec.)

Stability : -5°C, 5°C, 25°C, 40°C, 50°C, Cycle(0 ~ 45°C), 3 Months



In-vitro SPF value : 63.7

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