

W/O Mineral Sunscreen Lotion TG23-SMN

Mineral sunscreen incorporating PRODEW™ 700 for skin caring benefits.

AMIHOPE™ SB-101 enhances UV protection effect and sensory feelings such as less stickiness.

| | Trade Name | INCI Name | wt% | Function |
|---|-----------------------------------|---|---------|---|
| А | Ultimo Pure Crodamol TN *1 | Isotridecyl Isononanoate | 1.0 | Emollient |
| | DOWSIL ES-5612 Formulation Aid *2 | PEG-10 Dimethicone | 1.0 | Emulsifier |
| | CITHROL DPHS *1 | PEG-30 Dipolyhydroxystearate | 2.0 | Emulsifier |
| | Polyaquol OS2 *3 | Polyglyceryl-2 Oleate, Polyhydroxystearic Acid, Polyglyceryl-2 Stearate | 2.0 | Emulsifier |
| | BENTONE GEL ISD-V *4 | Isododecane, Disteardimonium Hectorite, Propylene Carbonate | 10.0 | Thickening agent |
| В | Ultimo Pure Crodamol TN *1 | Isotridecyl Isononanoate | 20.0 | Emollient |
| | DOWSIL ES-5612 Formulation Aid *2 | PEG-10 Dimethicone | 4.0 | Emulsifier |
| | STR-100C-LP *5 | Titanium Dioxide, Aluminum Hydroxide, Hydrogen Dimethicone | 8.0 | UV scattering agent |
| | FINEX 33W-LP2 *5 | Zinc Oxide, Hydrated Silica, Hydrogen Dimethicone | 8.0 | UV scattering agent |
| D | AMIHOPE™ SB-101 | Silica, Microcrystalline Cellulose, Lauroyl Lysine | 2.0 | SPF booster Sensory improver |
| E | 1, 3-BG | Butylene Glycol | 6.0 | Humectant |
| | PRODEW™ 700 (50%) | Sodium PCA, Sodium Polyaspartate, Butylene Glycol, Betaine, Zinc PCA, Sodium Citrate, Arginine, Serine, Lysine HCI, Glutamic Acid, Water | 2.0 | Skin conditioning, Moisturizer, Sebum control, Adhesion improver |
| | Magnesium Sulfate | Magnesium Sulfate | 0.5 | Stabilizer |
| | Preservative | Preservative | q.s. | Preservative |
| | Water | Water | balance | Solvent |
| | | Total | 100 | |

^{*1} Croda, *2 Dow, *3 Innovacos, *4 Elementis, *5 Sakai Chemical Industry

<PROCEDURE>

- Mix part B uniformly, then add part C and mix by hand, and disperse part (B+C) with a roller mill 3 times.
- Add part A and part D into part (B+C).
- 3. Heat and dissolve part (A+B+C+D) at 75 °C with a homogenizing mixer (1,000 rpm), then cool to 60 °C.
- 4. Heat and dissolve part E at 55 °C.
- 5. Slowly add part E into part (A+B+C+D) with stirring and mix with a homogenizing mixer (3,000 rpm) at 55 °C, then cool to 40 °C or less.
- 6. Cool to r.t by stirring with a paddle mixer (150 rpm).

<PHYSICAL PROPERTIES and STABILITY>

Appearance: Fluid

Viscosity : 3,950 mPa·s (B-Type, Rotor No. M4, 30 rpm, 30 sec.)

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