

ultra skin protect GP4G (*in vivo* SPF 24)

formula # 200-10034C

material # 858996

claim to fame

Total environmental protection care

UV, IR, external aggressions

Daily wear face product

O/W buttery emulsion

description

Daily wear face product with broad-spectrum protection. This rich buttery texture melts effortlessly and absorbs quickly

ingredients

Antaron™ /Ganex™ V220 F polymer

hydrophobic polymer that provides film formation and water resistance. This ingredient contributes to the butter-like texture

RapiThix™ A-100 polymer

Provides formula stability and increased viscosity. Easy to use, does not require neutralization.

Escalol UV filters

combination provides broad-spectrum UVA and UVB protection

LiquaPar™/Rokonsal™ MEP preservative

Global, broad-spectrum, broad pH preservative based on short chain parabens.

Cerasynt™ 945 ester

Non-ionic emulsifier recommended for use in O/W creams and lotions.

GP4G™ SP biofunctional

A unique plankton extract, rich in GP4G nucleotides, that helps protect skin from environmental shocks such as temperature shocks, ultraviolet and infrared rays.

typical properties

description: white, butter like, opaque cream

pH: 5.4 – 6.2

viscosity (D1): 170 000 – 240 000 cps
(Brookfield RVT | Spindle D | 5 RPM | 1 minute | 25°C)

SPF *in vivo*: 24

This formula has passed 3-month accelerated lab stabilities and a 28-day challenge efficacy test. However, the preservative system has not been optimized to its lowest effective level.

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ingredients (trade name INCI)		% w/w	supplier
phase A			
Purified Water	Water/Aqua	Qs. 100	Local
phase B			
RapiThix™ A-100 polymer	Sodium Polyacrylate	0.50	Ashland
phase C			
Amphisol* K	Potassium Cetyl Phosphate	0.50	DSM
phase D			
Rokonsal™/ LiquaPar MEP preservative	Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Propylparaben	0.70	Ashland
phase E			
Cerasynt™ 945 ester	Glyceryl Stearate (and) Laureth-23	2.50	Ashland
Nacol* 16-98	Cetyl Alcohol	2.00	Sasol
Cerabeil White	Cera Alba (Beeswax)	2.00	Baerlocher
Antaron™/Ganex™ V-220F polymer	VP/Eicosene Copolymer	1.00	Ashland
Escalo™ 517 UV filter	Butyl Methoxydibenzoylmethane (Avobenzone)	3.00	Ashland
Escalo™ 587 UV filter	Ethylhexyl Salicylate	5.00	Ashland
Escalo™ 597 UV filter	Octocrylene	7.00	Ashland
Ceraphyl™ 368 ester	Ethylhexyl Palmitate	5.00	Ashland
Xiameter* PMX-0245	Cyclopentasiloxane	5.00	Dow Chemical
phase F			
Optiphen™ preservative	Phenoxyethanol (and) Caprylyl Glycol	0.50	Ashland
phase G			
Amidon de Maïs MST	Zea Mays (Corn) Starch	2.00	Sensient
phase H			
PF Evasion	Fragrance/Parfum	0.50	Technicoflor
GP4G SP™ biofunctional	Water/Aqua (and) Artemia extract	1.00	Ashland
total		100.00%	

procedure

1. Add water into main vessel and begin to heat to 80°C.
2. Sprinkle in phase B at 60°C and mix well until homogeneous.
3. At 80°C, add phase C and mix well then add phase D
4. Add Phase E ingredients to side beaker and heat at 75-80°C.
5. At 80°C add Phase E into the main vessel and mix well. The emulsion should be homogeneous.
6. Begin cooling
7. At 65°C add Phase F and mix well
8. Cool until 30°C and add phase G then H mixing well between each phase until homogeneous
9. Stop at 25°C.

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