

sea-sea cream protection daywear SPF 25

formula # 300-10023

material # 908817

claim to fame

dual protection cream for enhanced skin radiance

skin pollution rescue provided by SeaStem™

UV protection provided by Escalol™ blend

wear resistance with Antaron™ / Ganex™ Sensory

description

This easy-to-apply texture provides SPF protection and sheer coverage alongside genuine skincare benefits, eliminating the need for separate products. The light-coverage formula makes skin feel and look smoother with a flawless finish.

ingredients

SeaStem™ biofunctional

Giant kelp extracted with Zeta Fraction™ technology. Helps skin rescue its "stemness" potential, which can be attacked by ultrafine pollution particles.

Antaron™ Sensory / Ganex™ Sensory polymer

Helps improve the dispersion of the oil soluble pigments and generally increases wear-off resistance.

Escalol™ UV filter blend

Combination of globally approved UV filters for broad spectrum SPF 25 protection.

Lubrajel* MS Free hydrogel

Non greasy emolliency, provides viscosity. Superior moisturization boost.

Optiphen™ ND preservative

and Optiphen™ OD preservative booster

Broad-spectrum preservative system, effective up to pH 6.4.

Ceraphyl™ 230 ester

Light, dry ester that aids in the solubilization of UV filters.

typical properties

description:	rosy beige cream (o/w emulsion)
pH:	5.5 – 6.0
viscosity (D1):	15 000 – 30 000 cps (Brookfield RVT Spindle B 5 RPM 1 minute 25°C)

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.

SPF *in vitro*: 25

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ingredients (trade name INCI)			% w/w	supplier
A	purified water	Water/Aqua	Qs.100	Local
	Lubrajel [®] MS Free hydrogel	Glycerin (and) Glyceryl Acrylate/Acrylic Acid Copolymer	2.00	Ashland
	Methylparaben NF preservative	Methylparaben	0.30	Ashland
	Microcare [®] EHB	Ethylparaben	0.20	Thor
B	Optiphen [™] ND preservative	Phenoxyethanol (and) Benzoic Acid (and) Dehydroacetic Acid	1.00	Ashland
	Keltrol [®] CG-RD	Xanthan gum	0.40	CP Kelco
C	Sodium Hydroxide	Sodium Hydroxide	0.07	Local
	Purified Water	Water/Aqua	1.00	Local
D	Antaron [™] Sensory / Ganex [™] Sensory polymer	VP/Acrylates/Lauryl Methacrylate Copolymer	0.50	Ashland
E	Simulsol [®] 165	PEG-100 Stearate (and) Glyceryl Stearate	2.00	Seppic
	Montanov [®] L	C14-22 Alcohol (and) C12-20 Alkyl Glucoside	1.00	Seppic
	Belsil [®] W 3230	Bis-Stearoxydimethylsilane (and) Stearyl Alcohol (and) Dimethicone	2.00	Wacker
	Escalol [™] 597 UV filter	Octocrylene	6.00	Ashland
	Escalol 587 UV filter	Ethylhexyl Salicylate	5.00	Ashland
	Escalol 567 UV filter	Benzophenone-3	6.00	Ashland
	Ceraphyl [™] 230 ester	Diisopropyl Adipate	2.00	Ashland
	Unipure [®] Yellow LC 182 ADT-C	CI 77492 (and) Isopropyl Titanium Triisostearate (and) Bis-PEG-15 Dimethicone/IPDI Copolymer (and) PEG-2 Soyamine	0.30	Sensient
	Unipure Red LC 381 ADT-C	CI 77491 (and) Isopropyl Titanium Triisostearate (and) Bis-PEG-15 Dimethicone/IPDI Copolymer (and) PEG-2 Soyamine	0.30	Sensient
	Unipure Black LC 989 ADT-C	CI 77499 (and) Isopropyl Titanium Triisostearate (and) Bis-PEG-15 Dimethicone/IPDI Copolymer (and) PEG-2 Soyamine	0.02	Sensient
	Unipure White LC 987 ADT-C	CI 77891 (and) Isopropyl Titanium Triisostearate (and) Bis-PEG-15 Dimethicone/IPDI Copolymer (and) PEG-2 Soyamine	4.00	Sensient
	F	KSG-16	Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer	5.00
Belsil [®] DM 100		Dimethicone	4.00	Wacker
G	Optiphen OD preservative booster	Caprylyl Glycol	0.25	Ashland
	SeaStem [™] biofunctional	Macrocystis Pyrifera (Kelp) Extract	1.00	Ashland
	PF Saint Trop G11724955	Fragrance/Parfum (and) Benzyl Benzoate	0.15	Robertet
total			100.00%	

procedure

1. Add water and Lubrajel MS Free into main vessel and mix until homogeneous. Start to heat to 75°C.
2. At 60°C, sprinkle in methylparaben and microcare EHB. Mix well until fully dissolved.
3. At RT in a side beaker premix phase B, add it at 65°C into the main beaker and mix well until smooth.
4. At RT, premix phase C in a side beaker until clear.
5. At 75°C, add phase C into the main beaker and mix well.
6. At 75°C, sprinkle in phase D and mix well until homogeneous and smooth.
7. In a side beaker, heat phase E ingredients (without pigments) at 75-80°C until powders are dissolved. Then, disperse pigments in phase E under stirring until color is homogeneous.
8. At 75°C add phase E slowly into the main vessel and homogenize well. The emulsion should be homogeneous.
9. Begin cooling.
10. At RT, premix phase F under stirring in a side beaker until clear and homogeneous.
11. At 60°C, add phase F into the main beaker and homogenize well.
12. At 30°C add phase G ingredients one by one and mix well between each addition.
13. Stop at 25°C.

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