

High Protection Lotion SPF50

2532-2.01



+ Hybrid product

+ Fluid texture

+ Very soft afterfeel

Phase	Name	INCI	Supplier	%
A1	DEMINERALIZED WATER	WATER	-	48.10
	KELCO-CARE™ DIUTAN GUM	SPHINGOMONAS FERMENT EXTRACT	Lubrizol	0.08
A2	GEOGARD ULTRA™	GLUCONOLACTONE, SODIUM BENZOATE, CALCIUM GLUCONATE	Lonza	0.40
A3	BUTYLENE GLYCOL	BUTYLENE GLYCOL	-	3.00
A4	HYDRAMOL TGL	POLYGLYCERYL-3 LAURATE	Lubrizol	1.00
B1	EMULIUM® DOLCEA MB	GLYCERYL STEARATES, JOJOBA ESTERS, CETYL ALCOHOL, STEARYL ALCOHOL, HELIANTHUS ANNUUS (SUNFLOWER) SEED WAX, SODIUM STEAROYL GLUTAMATE, WATER, POLYGLYCERIN-3	Gattefossé	4.50
	UVASORB HEB	DIETHYLHEXYL BUTAMIDO TRIAZONE	3 V Sigma	4.00
	UVINUL A PLUS	DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE	BASF	5.00
	TINOSORB S	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	BASF	2.00
	PARSOL EHS	ETHYLHEXYL SALICYLATE	DSM	5.00
	CETIOL® B	DIBUTYL ADIPATE	BASF	4.50
	PRESERVATIVE	PRESERVATIVE	-	0.70
	HALLBRITE BHB	BUTYL OCTYL SALICYLATE	Hallstar	2.50
	SCHERCEMOL DIS ESTER	DIISOPROPYL SEBACATE	Lubrizol	5.00
B2	SOLAVEIL HTP1 MBAL-PW-(MV)	TITANIUM DIOXIDE, STEARIC ACID, ALUMINA	Croda	6.00
	PECEOL® ISOSTEARIQUE	GLYCERYL ISOSTEARATE	Gattefossé	4.00
	MATRIFUSE™ S-1 DISPERSANT	POLYHYDROXYSTEARIC ACID, NEOPENTYL GLYCOL DIETHYLHEXANOATE	Lubrizol	1.00
	SCHERCEMOL PDD	DIISOSTEAROYL POLYGLYCERYL-3 DIMER DILINOLEATE	Lubrizol	2.00
C	PLANTACARE 2000 UP	DECYL GLUCOSIDE, WATER	BASF	1.12
D	PERFUME DOME RELAX RS59716	PARFUM	Technico-Flor	0.10
				100.00

Operating instructions

- Heat water to 75°C and add under stirring Kelco Care Diutan, let the gel swell for 5 min, then add A2 and A3 under stirring.
- Heat B1 to 80°C under stirring until complete solubilization of UV filters.
- Heat B2 to 70°C, add TiO₂ slowly under mixing and homogenize for 5 min.
- Add B2 to B1.
- Add B (75°C) slowly to A (75°C) under mixing (2000 rpm) for 15 min.
- Add C and mix for 5 min at 2000 rpm.
- Cool to 35°C under medium speed mixing (1000 rpm).
- Add D under mixing and homogenize for 2 min.
- Complete cooling to 25°C under stirring.



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Description

This very high protection SPF50 is the best ally for sun-sensitive skin, whether in the city or at the beach. Thanks to Emulium™ Dolce MB, the texture is fluid, soft and comfortable and leaves a very smooth, non-greasy and non-sticky afterfeel.

Specifications

- + Aspect:
Glossy and slightly yellow lotion
- + pH = 5.8 ± 0.5
- + Viscosity Brookfield RV (spindle A, speed 5):
approx. 6 500 mPa.s after 24h
- + Conform to Australian, EU, Japan, UK, MERCOSUR, and China regulations
SPF *in vivo* (ISO 24444): 56 (5 subjects)
UVA *in vitro* (ISO 24443): 19
Water resistance: 56%
Critical wavelength: 377 nm

Tests performed on formula 2532-1.26

Ingredients

- **Emulium® Dolce MB**, used at 4.5%, creates a very soft and comfortable O/W emulsion, with no tacky or greasy feel.
- Kelco-Care™ Diutan Gum is an aqueous gelling agent that helps to improve stability and performance of the protective film.
- Geogard Ultra™ is used as a pH buffering agent. It is premixed with Butylene Glycol.
- Hydramol TGL is used as a humectant.
- Uvasorb HEB, Uvinul A Plus, Tinosorb S and Parsol EHS are organic UV filters.
- Cetiol® B, Schercemol Dis Ester, Peceol® Isostearique and Schercemol PDD are emollients that help to solubilize UV filters. Schercemol PDD also helps to improve water resistance.
- Hallbrite BHB is a SPF booster.
- Plantacare 2000 UP has a very high HLB that helps to stabilize the O/W emulsion.
- Solaveil HTP1 MBAL-PW-(MV) is an inorganic UV filter.
- Matrifuse™ S-1 Dispersant is a dispersing agent.