

Invisible Radiant Shield SPF50 2578-1.16



C A2 B S A3 S	CARBOPOL® AQUA SF-1 OS POLYMER BUTYLENE GLYCOL SATIAXANE™ VPC 911 SODIUM HYDROXIDE (10 % SOL.)	WATER WATER, ACRYLATES COPOLYMER BUTYLENE GLYCOL XANTHAN GUM	_ LUBRIZOL _	34.90 3.50
A2 B S A3 S	BUTYLENE GLYCOL SATIAXANE™ VPC 911	BUTYLENE GLYCOL	LUBRIZOL	3.50
S A3 S	SATIAXANE™ VPC 911		_	
A3 S		ΧΑΝΤΗΔΝ GUM		3.00
	SODIUM HYDROXIDE (10 % SOL.)		CARGILL	0.30
		WATER, SODIUM HYDROXIDE	_	0.50
A4 H	HYDRAMOL™ TGL	POLYGLYCERYL-3 LAURATE	LUBRIZOL	1.00
45 D	DISODIUM EDTA	DISODIUM EDTA	-	0.10
A6 P.	PARSOL® HS	PHENYLBENZIMIDAZOLE SULFONIC ACID	DSM	3.00
D	DEMINERALIZED WATER	WATER	-	3.00
S	SODIUM HYDROXIDE (10 % SOL.)	WATER, SODIUM HYDROXIDE	_	5.25
B1 T	TINOGARD TL	BENZOTRIAZOLYL DODECYL P-CRESOL	BASF	0.50
U	JVINUL® A PLUS	DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE	BASF	2.00
Т	TINOSORB® S	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	BASF	2.50
P	PARSOL® EHS	ETHYLHEXYL SALICYLATE	DSM	5.00
C	C12-15 ALKYL BENZOATE	C12-15 ALKYL BENZOATE	-	9.00
P	PRESERVATIVE	PRESERVATIVE	-	0.70
P	PARSOL® 1789	BUTYL METHOXYDIBENZOYLMETHANE	DSM	3.00
D	DPPG CG	PROPYLENE GLYCOL DIPELARGONATE	GATTEFOSSE	3.50
B2 🖪	EMULIUM® DERMOLEA MB	POLYGLYCERYL-6 DISTEARATE, CANDELILLA/JOJOBA/RICE BRAN POLYGLYCERYL-3 ESTERS	GATTEFOSSE	4.00
B3 T.	IXD60-AB	TITANIUM DIOXIDE, C12-15 ALKYL BENZOATE, POLYHYDROXYSTEARIC ACID, SILICA, DIMETHICONE	SUNJIN BEAUTY SCIENCE	8.00
C <mark>G</mark>	GATULINE® RADIANCE	PROPANEDIOL, EVODIA RUTAECARPA FRUIT EXTRACT	GATTEFOSSE	2.00
G	GATULINE® RC BIO	WATER, FAGUS SYLVATICA BUD EXTRACT	GATTEFOSSE	2.00
Μ	AIRAGE BRIGHT RED	CALCIUM SODIUM BOROSILICATE, TITANIUM DIOXIDE, TIN OXIDE	ECKART	0.80
U	JNICERT YELLOW 08005-J (1.0% SOL.)	WATER, YELLOW 5	SENSIENT	0.06
U	JNICERT RED 07004 J (1.0% SOL.)	WATER, RED 4	SENSIENT	0.06
C	CORN PO4 PH B 9042	DISTARCH PHOSPHATE	AGRANA	2.00
Р	PERFUME ARGANORANGER MIEL RS35850	PARFUM	TECHNICO-FLOR	0.20
D S	SODIUM HYDROXIDE (10 % SOL.)	WATER, SODIUM HYDROXIDE	-	0.13

Operating instructions

- Mix A1.
- Premix A2, add to A1 and stir until complete dispersion of xanthan gum. Then heat at 60°C and add A3.
- Add A4 under high shear (Ultra Turrax is possible to make sure there are no lumps of gel), then add A5 and stir until complete solubilization of EDTA.
- Mix A6 until complete solubilization of Parsol® HS and then add to batch.
- Heat B1 at 80°C until complete solubilization of UV filters, then let it cool to 60°C and add B2, stir until complete solubilization then add B3 and homogenize.
- Add slowly B (60°C) into A (60°C) under mixing and homogeneize for 15min at 2000rpm.
- Cool down to 35°C under moderate mixing (about 800rpm) and add premix C under stirring.
- Add D to adjust final pH at 7.2 and stir for 10min. If needed to have a thinner emulsion, adding 1min of high shear is possible.

This formula is presented in good faith, however, no warranty as to the accuracy or completeness of results, or fitness for a particular use is given, nor is freedom from the infringement of any intellectual/industrial property rights to be inferred. It is provided "as is" for your consideration, investigation and verification. To the extent permissible by applicable law, Gattefossé shall in no way be liable for any reliance upon information or materials provided.



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Description

Skin is radiant and moisturized with this highly protective sunscreen that contains **Gatuline® RC Bio** and **Gatuline® Radiance**, two clinically evaluated actives. The emulsifier, **Emulium® Dermolea MB**, provides ideal lightness upon application, despite the high UV protection, and is perfect for sensitive skin.

Specifications

- + Aspect: Glossy and sightly peach cream
- + pH: 7.2 ± 0.3
- + Viscosity Brookfield RV (spindle A, speed 5): approx. 14000 ± 2000 mPa.s after 24h
- + Photostability 92%

- + Conform to Australian, EU, Japan, UK, MERCOSUR, and China regulations
- + SPF in vivo (ISO 24444:2010): 53.6* (4 vol.)
- + UVA in vitro (ISO 24443:2021): 29.7*
- * Tests conducted on a similar formula (1704-1.23). In vitro measurement highlights same absorbance curve.

Ingredients

- **Emulium® Dermolea MB** is a 100% natural origin O/W emulsifier which supports the skin barrier function. It is used at 4% in this formula to emulsify the oil phase containing UV filters and solubilizers.
- Carbopol[®] Aqua SF-1 OS polymer is an acrylate gelling agent that has a good compatibility with TiO₂.
- Hydramol[™] TGL helps to keep TiO₂ well dispersed over time.
- Uvinul[®] A Plus and Parsol[®] 1789 are organic lipophilic UVA filters.
- Parsol® EHS and Uvinul® T 150 are organic lipophilic UVB filters.
- Parsol[®] HS is an organic hydrophilic UVB filter that needs pH adjustment.
- Tinosorb[®] S is a broad spectrum organic UV filter that improves the photostability of Parsol[®] 1789.
- **DPPG CG** and C12-15 Alkyl Benzoate are emollients that help to solubilize UV filters.
- TXD60-AB is a dispersion of 46% Titanium Dioxide in C12-15 Alkyl Benzoate.
- Gatuline® Radiance enhances all aspects of a radiant complexion, including skin color, brightness and luminosity.
- Gatuline® RC Bio increases skin hydration and minimizes fine lines for a healthier and younger look.