

# Aqua Shield SPF50

## 3028-1.13



+ Refreshing effect

+ Light texture

+ Sprayable

Phase	Name	INCI	Supplier	%
A1	DEMINERALIZED WATER	WATER	-	40.49
	CARBOPOL® AQUA SF-1 OS POLYMER	WATER, ACRYLATES COPOLYMER	LUBRIZOL	2.00
A2	SATIAXANE™ VPC 911	XANTHAN GUM	CARGILL	0.10
	BUTYLENE GLYCOL	BUTYLENE GLYCOL	-	3.00
A3	SODIUM HYDROXIDE (10 % SOL.)	WATER, SODIUM HYDROXIDE	-	0.25
A4	E.D.T.A. DISODIUM SALT	DISODIUM EDTA	-	0.10
B1	<b>EMULFREE® CBG MB</b>	ISOSTEARYL ALCOHOL, BUTYLENE GLYCOL COCOATE, ETHYLCELLULOSE	GATTEFOSSÉ	<b>5.00</b>
	<b>COCOATE™ BG MB</b>	BUTYLENE GLYCOL COCOATE	GATTEFOSSÉ	<b>3.50</b>
	TINOGARD TL	BENZOTRIAZOLYL DODECYL P-CRESOL	BASF	0.80
	PARSOL® 1789	BUTYL METHOXYDIBENZOYLMETHANE	DSM	3.00
	UVINUL® A PLUS	DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE	BASF	2.00
	TINOSORB® S	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	BASF	2.50
	PARSOL® EHS	ETHYLHEXYL SALICYLATE	DSM	5.00
	PRESERVATIVE	PRESERVATIVE	-	0.70
	C12-15 ALKYL BENZOATE	C12-15 ALKYL BENZOATE	-	8.50
B2	TXD60-AB	TITANIUM DIOXIDE, C12-15 ALKYL BENZOATE, POLYHYDROXYSTEARIC ACID, SILICA, DIMETHICONE	IMPAG	9.50
C	DEMINERALIZED WATER	WATER	-	3.00
	PARSOL® HS	PHENYLBENZIMIDAZOLE SULFONIC ACID	DSM	2.00
	SODIUM HYDROXIDE (10 % SOL.)	WATER, SODIUM HYDROXIDE	-	3.30
D	NATPURE® FILM GR	GLYCERYL ROSINATE, WATER, CELLULOSE, SODIUM SULFATE	SENSIENT	1.00
E	<b>SOLASTEMIS®</b>	FRUCTOSE, GLYCERIN, WATER, SECHIUUM EDULE FRUIT EXTRACT	GATTEFOSSÉ	<b>2.00</b>
	<b>GATULINE® RADIANCE</b>	PROPANEDIOL, EVODIA RUTAECARPA FRUIT EXTRACT	GATTEFOSSÉ	<b>2.00</b>
	UNICERT® BLUE 05601-J (0.5% SOL.)	WATER, BLUE 1	SENSIENT	0.18
F	PERFUME DOME RELAX RS59716	PARFUM	TECHNICO-FLOR	0.08
G	SODIUM HYDROXIDE (10 % SOL.)	WATER, SODIUM HYDROXIDE	-	q.s. pH >7.2
H	CITRIC ACID (10% SOL.)	WATER, CITRIC ACID	-	q.s. pH >7.2
				100.00

## Operating instructions

- Prepare A1.
- Premix A2 and add to A1. Stir until the xanthan gum swells. Then heat up to 78°C.
- Add A3 to partially neutralize carbopol.
- Add A4 under mixing, and stir until complete solubilization of EDTA.
- Prepare B1 and heat up to 80°C under mixing until complete solubilization of UV filters, then add B2 and homogenize.
- Incorporate slowly B (70°C) into A (70°C) under mixing and homogenize for 15 minutes at 2000rpm.
- Cool down to 40°C under moderate mixing (800rpm)
- Premix C to solubilize Parol® HS (PBSA) above pH 6.8 and add under mixing. Then homogenize at 2000rpm for 5 minutes.
- Cool down to 35-38°C under moderate mixing and add D, E, F and G one by one. Stir between each addition.
- Adjust the final pH above 7.2 (because of PBSA) with phase G or H if necessary.



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## Description

Refresh and protect your skin with this sprayable suncare lotion. Thanks to Emulfree® CBG MB and its bi-gel technology, the formula is very fluid and refreshing during application and brings comfort without any greasy nor tacky afterfeel.

## Specifications

- + Aspect:  
Glossy light blue fluid emulsion
- + pH = 7.4 ± 0.3
- + Viscosity Brookfield RV (spindle A, speed 5):  
approx. 3 500 mPa.s after 24h
- + Conform to Australian, EU, Japan, UK, MERCOSUR, and China regulations  
SPF *in vivo* (ISO 24444:2019/Amd1:2022): 51.6 (5 vol.)  
UVA *in vitro* (ISO 24443:2021): 21.5  
Photostability: 86%  
Water resistance *in vivo*: 54% (5 vol.)  
CW (ISO 24443:2021): 377nm

## Ingredients

- **Emulfree® CBG MB** at 5% creates a light and fresh texture thanks to its bi-gel technology. It helps to reach a good water resistancy.
- Carbopol® Aqua SF-1 OS Polymer and Satiaxane VPC 911 are aqueous gelling agents that improve stability. Carbopol® Aqua SF-1 OS Polymer has a good compatibility with titanium dioxide.
- Parsol® EHS and Parsol® HS are UVB filters. Uvinul® A Plus and Parsol® 1789 are UVA filters. Tinosorb® S is a broad spectrum UV filter.
- **Cocoate™ BG MB** is a good UV filter solubilizer, and a good dispersing agent for mineral UV filters.
- C12-15 Alkyl Benzoate is an emollients with solubilizing properties.
- TXD 60 AB is a titanium dioxide dispersion. C12-15 Alkyl Benzoate that is inside also helps solubilization of UV filters.
- Tinogard® TL in as anti-oxidant that helps for photostability.
- Natpure® Film GR is a natural origin film former.
- **Solastemis®** protects skin cells from UVA damages.
- **Gatuline® Radiance** enhances all aspects of a radiant complexion.