

# SUNPROTECTION GEL

Protection  
Freshness  
Natural

This product gives you an efficient starting point to create formulations that will answer customer needs for mineral and natural oriented sunscreens. Thanks to its gel texture, the UV filter dispersion remains stabilized and the formula exhibits a unique fresh sensory with a minimal whitening effect. An SPF booster reinforces and optimizes the use of the mineral UV filters to efficiently protect the skin from UV damage.

You're welcome, cheers to finding your hero ingredients for sun care products!



## INGREDIENTS SPOTLIGHT

### SunSpheres™ BIO SPF Booster

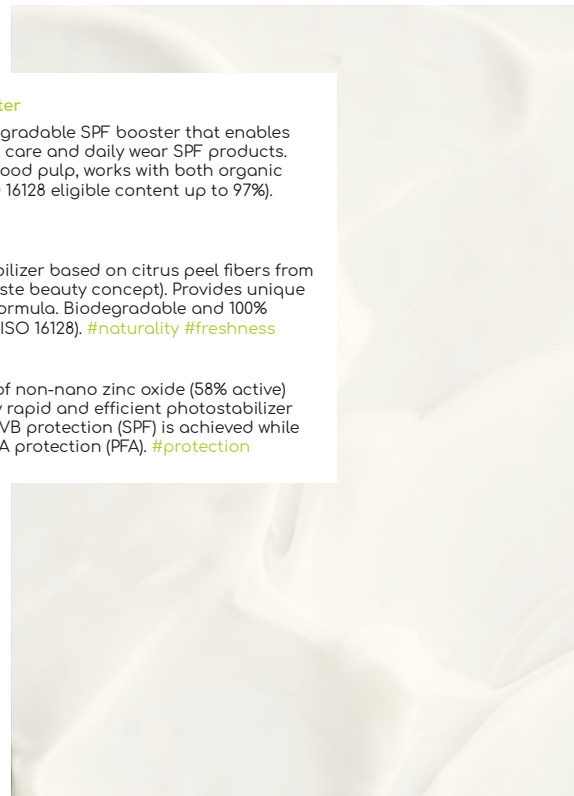
Bio-based and readily biodegradable SPF booster that enables greater SPF efficiency in sun care and daily wear SPF products. Derived from FSC-certified wood pulp, works with both organic and inorganic UV filters (ISO 16128 eligible content up to 97%).  
#protection #naturality

### FiberDesign™ Sensation

Texturizer and emulsion stabilizer based on citrus peel fibers from pectine side stream (zero waste beauty concept). Provides unique sensorial properties to the formula. Biodegradable and 100% natural origin (according to ISO 16128). #naturality #freshness

### HallBrite® EZ-FLO ZDX Plus

Readily flowable dispersion of non-nano zinc oxide (58% active) combined with the extremely rapid and efficient photostabilizer SoloStay® S1. Much higher UVB protection (SPF) is achieved while maintaining comparable UVA protection (PFA). #protection



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Protection | Freshness | Naturality

Trade name	INCI name	Function	Supplier	%
<b>Phase A</b>				
	Water (Aqua)	Solvent	Univar Solutions*	Q.S. 68.3
	Glycerin	Humectant, vegetable origin	Univar Solutions*	3.0
SunSpheres™ BIO SPF Booster	Microcrystalline Cellulose [nano]	SPF Booster, bio-derived	Dow / Univar Solutions*	2.0
FiberDesign™ Sensation	Citrus Limon Peel Powder (and) Sclerotium Gum	Thickener, stabilizer, sensory enhancer, derived-natural	Cargill Beauty / Univar Solutions*	2.0
Kem EHG	Phenoxyethanol, Ethylhexylglycerin	Preservative	Akema / Univar Solutions*	1.0
<b>Phase B</b>				
Muguet Festival SY164136	Fragrance	Fragrance	Kao Fragrances / Univar Solutions*	0.4
HallBrite® EZ-FLO ZDX Plus	Zinc Oxide [Zinc Oxide] (58%), Butyloctyl Salicylate, Ethylhexyl Methoxycrylene, Triceteareth-4 Phosphate, Triethoxycaprylsilane	UV filter and photostabilizer	Hallstar / Univar Solutions*	17.3
HallBrite® EZ-FLO TDX	Butyloctyl Salicylate, Titanium Dioxide [nano], Triceteareth-4 Phosphate, Dimethicone Crosspolymer, Silica	UV filter	Hallstar / Univar Solutions*	6.0

## PROCEDURE (COLD PROCESS)

1. In the main vessel, add SunSpheres™ BIO SPF Booster in water and glycerine under agitation. Mix until homogeneous (propeller, 700rpm, 10min)
2. Under high shear add FiberDesign™ Sensation and mix (Silverson, 5,000rpm, 15min)
3. Add the rest of the ingredients of phase A
4. In a separate vessel, combine ingredients of phase B together
5. Add phase B to phase A directly under Silverson. Mix until homogeneous

## STABILITY

Stable at least 3 months at 4°C, RT and 40°C

## COMMENTS

- pH = 7.04
- Viscosity (spindle 6; 10 rpm; 1min) = 38,100 cPs (38.1%)
- SPF measured in vitro: 33. Test performed by our partner Hallstar
- Application: Apply on your skin to protect it from UV damage. Reapply every two hours for efficient sun protection.
- White/Ivory gel with high viscosity

## OBSERVATIONS / FORMULATION TIPS

- The viscosity will increase after 24 hours once the gel structure is formed. To obtain different textures, other texturizers can be combined with FiberDesign™ Sensation



## OUR CLEAN BEAUTY RULES



**Formulation Process**  
Cold process.



**Sustainability**  
Naturally-derived ingredient,  
zero waste ingredient.



**Marketing**  
Clear and short INCI list,  
performance.



**Ethics**  
Suppliers ethical programs.

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 **Univar Solutions**