Sun Care Oil Gel SPF 30

UV-DE-23-NB-4385560-002

Main Claims:

- Innovative format for oil-gel.
- Alternative oil thickening system.
- Alternative to silicone elastomers.
- Invisible once applied on the skin.
- Suitable for EcoSun Pass® certified.

Market trend:

+100% growth in sun care products claiming to be invisible

2021 vs 2023*

Cetiol® ABV

It is a medium spreading emollient with good solubilizing properties for crystalline UV-filters.

Uvinul® T 150

The most powerful UV-B filter. Highest photo-stable absorption of all available UV-B filters. High efficiency even at low UV-filter concentration. Suitable for perfume-free formulations.

Uvinul® A Plus

The only photostable UV-A filter on the market for reliable and long-lasting protection. Efficient shielding against UVA radiation, easy achievement of EU recommendation (UVA-PF/SPF ≥ 1/3).

Cetiol® Ultimate

Volatile, ultra fast-spreading and dry emollient; a 100% renewable-based alternative to Cyclomethicone. Ultra light hydrocarbon emollient, provides a silicone oil-like, powdery and waxy-dry skin feel.

Achieve effortless daily sun protection with an invisible and easy-to-apply SPF 30 formula that seamlessly blends into the skin

*GNPD. Mintel search of gel sun care products claiming invisible world wide. 2024

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BTC Chemical Distribution

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Phase	Ingredients	INCI	% by weight	Function
A	**Cetiol® ABV**	C12-15 Alkyl Benzoate	15.00	Emollient
	Cetiol® CC	Dicaprylyl Carbonate	18.00	Emollient
	Cetiol® B	Dibutyl Adipate	10.00	Emollient
	Xiameter OMX-200 Silicone Fluid 10 cst	Dimethicone	9.50	Skin feel modifier
	Uvinul® T 150	Ethylhexyl Triazone	3.50	UV-B filter
	Uvinul® A Plus	Diethylamino Hydroxybenzoyl Hexyl Benzoate	4.50	UV-A filter
	Tinosorb® S	Bis-Ethylhexyloxyphenol Methoxyphenyl	4.50	Broad spectrum UV filter
B	**Cetiol® Ultimate**	Undecane, Tridecane	14.80	Emollient
	Perfume*	Parfum	0.20	Fragrance
C	Plantacare® 1200 UP	Lauryl Glucoside	2.00	Surfactant
	Glycerin	Glycerin	16.00	Stabilizer
	Citric Acid (50% solution)	Citric Acid	1.50	pH Adjustment
	Sodium Benzoate	Sodium Benzoate	0.50	Preservative

Manufacturing Process

1. Premix phase A and heat up to 85°C. **2**. Premix phase C and heat up to 85°C. **3.** Start dispering phase C at 85°C . Add phase A to phase C slowly while dispersing. Add phase B to phase A+C after reaching a temperature of 70°C. **4.** Disperse the builded gel till 45°C and homogenize after that for 30 seconds. **5.** Fill the gel into suitable pakaging at 35°C. **6.** Directly after preparation shows the formulation a peak viscsoity of 38.00mpas, which will reduce afterwards to stable 18.00 mpas.

*Düllberg Coconut Water & Coriander Leaf

Specifications

Aspect	Yellowish oil-gel
pH value (23°C)	4.5 – 4.9
Viscosity (Brookfield; RVT; spindle TE; Helipath; 4 rpm; 23°C)	18.000 mPa s

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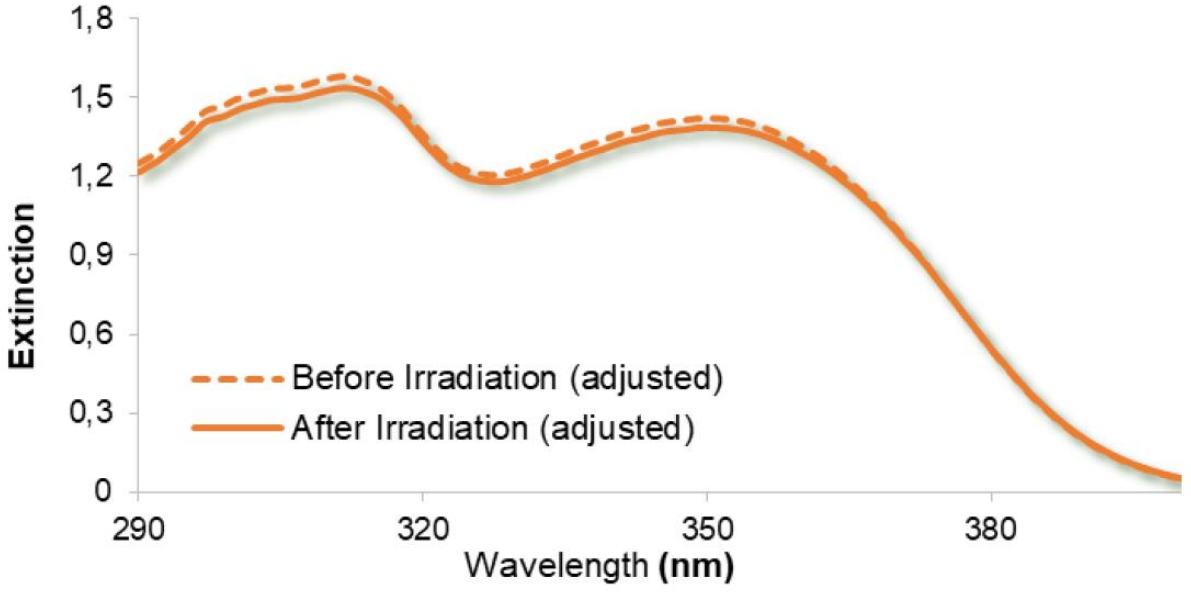
Performance



1. BASF Sunscreen Simulator - in silico determination of the sun protection factor. **2.** BASF internal method Nr. 55 - determination of the in vitro SPF & UVA Protection Factor (UVA-PF) **3.** Environmental Evaluation of Sunscreen Products

Filter combinations

4.5%	Uvinul® A Plus
3.5%	Uvinul® T 150
4.5%	Tinosorb® S

SPF in silico[1]	30.1
UVA-PF in vitro[2]	10.4
UVA-PF / SPF	>1/3 (UVA)
EcoSun Pass[3]	201
Natural Origin Content accord. to ISO 16128	59

The BASF EcoSun Pass

- **Fully photostable UV protection.**
- **UVA protection fulfilling EU requirements**