

Protecting Fluid UV + UVA SPF30

ZS_PCT_PFSPF30

Claim: Low viscous emulsion with PROTELAN NMF.
ZETEMOL OSB helps to solubilize crystalline sunscreen in order to obtain better SPF performance

Appearance: O/W, yellow

Phase	Ingredients	INCI	w/w %	Supplier
A	Demin. water	Aqua (Water)	approx. 66.70	
	EDTA Powder	Disodium EDTA	0.10	
	GLYCERINE – E	Glycerin	2.00	Z&S
	Carbopol® Ultrez 10 Polymer	Carbomer	0.25	Lubrizol
B	ZETEMOL OSB	Diethylhexyl Sebacate	8.00	Z&S
	Uvinul® A Plus	Diethylamino Hydroxybenzoyl Hexyl Benzoate	3.20	BASF
	Tinosorb® S	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	2.50	BASF
	ZETEMOL OP – RSPO – MB	Ethylhexyl Palmitate	2.00	Z&S
	Neo Heliopan® AV	Ethylhexyl Methoxycinnamate	6.00	Symrise
	PROTELAN NMF	Glyceryl Stearate, Cetearyl Alcohol, Sodium Lauroyl Glutamate, Sodium Stearoyl Lactylate	3.50	Z&S
	Abil® 350	Dimethicone	0.80	Evonik
	Uvinul® T 150	Ethylhexyl Triazone	3.00	BASF
	CETEARYL ALCOHOL 30	Cetearyl Alcohol	0.50	Z&S
C	Sodium Hydroxide 50% Solution	Sodium Hydroxide	approx. 0.15	
	Optiphen™ 300	Phenoxyethanol, Caprylyl Glycol	1.00	Ashland
D	Panache 0622649	Parfum (Fragrance)	0.20	Expressions Parfumées
	Galacid Cosmetic 90	Lactic Acid	approx. 0.10	Galactic

Manufacturing process:

1. Heat A to 75 °C under slow agitation.
2. Heat B to 75 °C, add B to A and homogenize with vacuum for 5 minutes.

The above results have been obtained from trials in our laboratory and plant. In the light of changing conditions, they can serve only as a guide and are therefore offered without obligation. We ask that the possible rights of third parties be observed.

3. Cool down under agitation.
4. At 45 °C add C to AB and homogenize for 2 minutes.
5. At 40 °C add D to ABC and homogenize for 2 minutes.
6. Cool down to room temperature whilst slow agitation.

Hints:

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Stability:

Stable for at least 12 weeks at 45 °C.

Stable for at least 12 weeks at 5 °C.

Stable for at least 12 weeks at room temperature.

Properties:

Viscosity: 18500 cPs (BRK S 64, 20 °C, 20 rpm, torque 66%)

pH value: 5.0–5.5 (original)

Centrifuge: passed (20 ', 3000 rpm)

Expected SPF: 30

In vitro post-irradiation: 48.62

SPF label/UVApf post-irradiation: 2.80

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