

# High Performance Sun Lotion SPF 50

UV-DE-20-147-2-1



| Phase | Ingredients              | INCI   | % by weight | Function                 |
|-------|--------------------------|--|-------------|--------------------------|
| A     | Eumulgin® Prisma         | Disodium Cetearyl Sulfosuccinate   | 0.60        | Emulsifier (O/W)         |
|       | Lanette® O               | Cetearyl Alcohol   | 4.00        | Consistency agent        |
|       | Cutina® GMS V            | Glyceryl Stearate  | 4.00        | Consistency agent        |
|       | Cetiol® B                | Dibutyl Adipate  | 8.00        | Emollient                |
|       | Cetiol® OE               | Dicaprylyl Ether   | 7.00        | Emollient                |
|       | Cetiol® Sensoft          | Propylheptyl Caprylate   | 6.00        | Emollient                |
|       | Preservative             |  | qs          | Preservative             |
|       | Uvinul® A Plus           | Diethylamino Hydroxybenzoyl Hexyl Benzoate   | 5.00        | UV-A filter              |
|       | Uvinul® T 150            | Ethylhexyl Triazone  | 3.00        | UV-B filter              |
|       | Tinosorb® S              | Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine   | 1.50        | Broad spectrum UV filter |
| B     | Water, demin.            | Aqua   | 39.60       |                          |
|       | Hydrasensyl Glucan Green | Aqua, Pentylene Glycol, Beta-Glucan, Caprylyl Glycol   | 2.50        | Active ingredient        |
| C     | Tinosorb® A2B            | Tris-Biphenyl Triazine (nano), Aqua, Decyl Glucoside, Butylene Glycol, Disodium Phosphate, Xanthan Gum           | 6.50        | UV-B / A II filter       |
|       | Tinosorb® M              | Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (nano), Aqua, Decyl Glucoside, Propylene Glycol, Xanthan Gum | 4.00        | Broad spectrum UV filter |
| D     | Cetiol® Ultimate         | Undecane, Tridecane  | 4.00        | Emollient                |
|       | Chione™ M SVA            | Synthetic Fluorphlogopite, Lauroyl Lysine  | 2.00        | Skin feel modifier       |
| E     | Water, demin.            | Aqua   | 2.00        |                          |
|       | DN-Aura® BC10011         | Maltodextrin, Lansium Domesticum Leaf Extract  | 0.30        | Active ingredient        |

## Specifications

pH value (25°C) 6.5 - 7.0

Viscosity (Brookfield; DV-III Ultra; spindle RV05; 10 rpm; 25°C) 5 700 - 6 600 mPa s

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## Performance

|   |       |
|---|-------|
| EcoSun Pass<br>(Environmental Evaluation of Sunscreen Products)   | 255   |
| SPF in silico<br>(BASF Sunscreen Simulator - in silico determination of the sun protection factor)                    | 50    |
| UVA-PF in vitro<br>(BASF internal method Nr. 55 - determination of the in vitro SPF & UVA Protection Factor (UVA-PF)) | 17.4  |
| WR in vitro %<br>(BASF internal method Nr. 50 - Determination of the in vitro water resistance of sunscreens)         | > 70% |
| SPF in vivo<br>(ISO 24444 - In vivo determination of the sun protection factor)                                       | 59    |

## Manufacturing Process

Heat part A and B to 80°C under stirring,

Add part A into B under stirring, homogenise ( 2min 13 000rpm ).

Cool down to room temperature under stirring.

Add part C under stirring.

Add part D under stirring.

Add part E premixed under stirring.

Continue stirring for a while.

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