

## Starting point formulation – After sun lotion – fast regeneration

After sun lotion with a cooling effect and nourishing care for fast, revitalizing regeneration of sun-exposed skin. **LAPONITE-XL 21 XR** gives the product a smooth, gel like texture and helps to keep the emulsion stable over time and contributes to a light, fresh non-sticky skin feel.

### Formulation

| Position     | Component                            | INCI  | Supplier               | Function                    | Dosage (%)    |
|--------------|--------------------------------------|---|------------------------|-----------------------------|---------------|
| A            | Water                                | Aqua  |                        | Carrier                     | 74.40         |
|              | LAPONITE-XL 21 XR                    | Sodium Magnesium Fluorosilicate (nano)              | BYK                    | Rheology modifier           | 0.20          |
|              | Glycerin 85 %                        | Glycerin, Aqua                                      | VWR                    | Moisturizer                 | 3.00          |
|              | Allantoin                            | Allantoin   | dsm-firmenich          | Active                      | 0.50          |
| B            | Sweet Almond Oil                     | Prunus Amygdalus Dulcis Oil                         | Gustav Heess           | Emollient                   | 5.00          |
|              | MCT-Oil Bio                          | Caprylic/Capric Triglyceride                        | Gustav Heess           | Emollient                   | 4.00          |
|              | TEGO Care PS                         | Methylglycose Sesquistearate                        | Evonik                 | Emulsifier                  | 5.00          |
|              | Lanette O                            | Cetearyl Alcohol                                    | BASF                   | Consistency providing agent | 2.00          |
| C            | D-Panthenol 75 L                     | Panthenol, Aqua                                     | dsm-firmenich          | Active                      | 2.00          |
|              | Blanova Aloe Vera Gel 200x FD Powder | Aloe Barbadensis Leaf Juice Powder, Citric Acid     | Azelis                 | Active                      | 0.10          |
|              | Rokonsal BSB-N                       | Benzyl Alcohol, Glycerin, Benzoic Acid, Sorbic Acid | Ashland                | Preservative                | 1.00          |
|              | DL Sodium Lactate 60 %               | Sodium Lactate, 60 %                                | Sigma Aldrich          | Humectant (NMF)             | 2.00          |
|              | Lactic Acid 80 %                     | L-Lactic Acid                                       | Sigma Aldrich          | pH-adjuster, active         | 0.50          |
|              | Manga Star                           | Parfum  | Dragonspice Naturwaren | Fragrance                   | 0.30          |
| <b>Total</b> |                                      |   |                        |                             | <b>100.00</b> |

### Instructions (manufacturing procedure)

- Add LAPONITE-XL 21 XR slowly to the water of phase A while stirring at 800 rpm for 20 min until transparent.
- Add Glycerin and Allantoin and stir well until homogeneous.
- Weigh in the ingredients of phase B. Heat phase A and B separately to 80 °C. Then add phase B to phase A while stirring with good agitation.
- Homogenize for 2 min at 10,000 rpm (Ultra Turrax).
- Cool down while stirring, then add all ingredients of phase C.

### Characteristic data

- Appearance: white lotion.
- Storage stability: 3 months at 40 °C.

LAPONITE-XL 21 XR is a rheology additive based on synthetic phyllosilicate providing a thixotropic stabilization.



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