

Composition

| Phase | Trade name | INCI name | Supplier | Weight [%] |
|---------------|---------------------------|--|----------------|------------|
| Water phase | Deionised Water | Aqua | | 62.60 |
| | Glycerine 99.5 % | Glycerine | AOT | 4.00 |
| | Magnesium Sulphate | Magnesium Sulphate | Inter-Harz | 0.70 |
| | Potassium Sorbate | Potassium Sorbate | Inter-Harz | 0.50 |
| | Citric Acid | Citric Acid | Inter-Harz | 0.20 |
| Oil phase | WARADUR® GE | Glyceryl Montanate | VOELPKER | 0.60 |
| | Hydrogenated Rapeseed Oil | Hydrogenated Rapeseed Oil | Henry Lamotte | 0.90 |
| | dermofeel® PGPR | Polyglyceryl-3 Polyricinoleate | Dr. Straetmans | 5.00 |
| | Tegosoft® CT | Caprylic/Capric Triglyceride | Evonik | 5.00 |
| | Cosmacol® ESI | Tridecyl Salicylate | Sasol | 5.00 |
| | Cosmacol® OE | Dicaprylyl Ether | Sasol | 5.00 |
| | Solaveil™ XT-300-LQ-(WD) | Titanium Dioxide (and) Caprylic/ Capric Triglyceride (and) Polyhy- droxystearic Acid (and) Stearic Acid (and) Alumina | Croda | 10.00 |
| Perfume phase | Cotton Water E_1407987 | Fragrance | Mane | 0.50 |

Preparation (300 g batch)

1. Heat the water phase and the oil phase to 80 °C.
2. Slowly add the water phase slowly into the oil phase while stirring.
3. Homogenise for 1 minute with the SilentCrusher/ULTRA-TURRAX® at 20,000 rpm.
4. Allow to cool down while stirring with the IKA paddle stirrer at 300 rpm.
5. Add the perfume phase at a temperature of below 40 °C and homogenise for 1 minute with the SilentCrusher/ULTRA-TURRAX® at 20,000 rpm. The sun lotion is now ready for packaging.

Formula Specifications

| | |
|---|--------------------------|
| Appearance | white, soft w/o emulsion |
| Viscosity (Brookfield DV3T, spindle 6/speed 10/time 30 s) | 18,900 mPas |
| pH value | – |
| Centrifugation (15 min at 4,000 rpm) | no separation |

Stability Data
Storage Stability in Terms of Appearance

- stable at room temperature
- stable at 5 °C ... 40 °C for at least 3 months
- stable at 50 °C for at least 1 month