



# Reference Formula

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## All Day Defense 全天候防曬

EP-SC-LOW-0072A V1

### FORMULA

| Phase | Ingredient<br>(Trade Name)   | Ingredient<br>(INCI Name)   | % By Weight   | Function               |
|-------|--|---|---------------|------------------------|
| W1    | <b>ACULYN 38 Polymer</b> <sup>1</sup>                                | <b>Acrylates/Vinyl<br/>Neodecanoate Crosspolymer</b>  | <b>2.00%</b>  | Thickener              |
| A     | D.I Water  | D.I Water   | Up to 100%    | Water                  |
|       | EDTA-2Na   | Edetate Disodium  | 0.10%         | Chelating<br>Agent     |
|       | <b>Carbowax SENTRY<br/>PEG-400</b> <sup>1</sup>                      | <b>Polyethylene Glycol</b>  | <b>2.25%</b>  | Moisturizer            |
| O1    | <b>Parsol 1789</b> <sup>2</sup>                                      | <b>Butyl<br/>Methoxydibenzoylmethane</b>  | <b>3.00%</b>  | UV Filter              |
|       | <b>Parsol EHS</b> <sup>2</sup>                                       | <b>Ethylhexyl Salicylate</b>  | <b>5.00%</b>  | UV Filter<br>/ Solvent |
|       | <b>Parsol 340</b> <sup>2</sup>                                       | <b>Octocrylene</b>  | <b>10.00%</b> | UV Filter<br>/ Solvent |
|       | <b>Parsol HMS</b> <sup>2</sup>                                       | <b>Homosalate</b>   | <b>10.00%</b> | UV Filter<br>/ Solvent |
|       | <b>ERCAREL AB</b> <sup>14</sup>                                      | <b>C12-C15 Alkyl Benzoate</b>   | <b>9.00%</b>  | UV Filter<br>Solvent   |
| O2    | <b>PMX-200 Silicone<br/>Fluid 2.0 cSt</b> <sup>1</sup>               | <b>Dimethicone</b>  | <b>2.00%</b>  | Emollient              |
|       | <b>FZ-3196 Volatile Alkyl<br/>Methyl Siloxane Fluid</b> <sup>1</sup> | <b>Caprylyl Methicone</b>   | <b>2.00%</b>  | Emollient              |
|       | HALLSTAR® GMS<br>PURE <sup>3</sup>                                   | Glyceryl Stearate   | 3.00%         | Emulsifier             |
|       | <b>FATTY ALCOHOL<br/>1618-01</b> <sup>14</sup>                       | <b>Cetyl Stearyl Alcohol</b>  | <b>0.25%</b>  | Co-emulsifier          |
|       | <b>Amphisol K</b> <sup>2</sup>                                       | <b>Potassium Cetyl Phosphate</b>  | <b>2.00%</b>  | Co-emulsifier          |
| B     | NaOH (30%)   | Sodium Hydroxide  | Q.S.          | pH Adjuster            |
|       | <b>EPITEX™ 99 Polymer</b> <sup>1</sup>                               | <b>Acrylates Copolymer (and)<br/>Acrylates<br/>Polytrimethylsiloxymet<br/>hacrylate Copolymer</b> | <b>2.50%</b>  | Film-forming<br>agent  |
|       | Preservative   | Preservative  | Q.S.          | Preservative           |

Suppliers: 1. Dow Chemical; 2. DSM; 14. ErcaWilmar.

Recommendations contained, herein this Reference Formula, are advisory only.

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## PROCEDURE

1. Prepare Phase O1 by heating to 80°C until melting.
2. Premix Phase W1 add Phase A into Phase W1, then heat to 80°C.
3. Add Phase O2 to Phase O1, then heat to 80°C.
4. Add Phase O1+O2 to Phase W1+A under homogenizing.
5. Cool down to 40°C then add Phase B under stirring.
6. Adjust pH value to 6.5-7.0.

## SPECIFICATION

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|            |   |
|------------|---|
| APPEARANCE | : Lotion  |
| VISCOSITY  | : approx. 3,656 ± 10% (45.7%) (RVDV-E, Spindle RV-5, 50 rpm, 3 min, 25°C) |

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