

Aqua Sun Gel US SPF 50
 Featuring: Silsoft* EAU microgel

SKIN CARE

SUN CARE



Silsoft EAU microgel makes it possible to create this outstanding, US FDA compliant, SPF 50 sun gel. The gel has a quick break and a very smooth application. The ability to create sunscreens that have excellent sensory even with high levels of US approved organic UV filters is made possible thanks to Silsoft EAU microgels' unique chemistry.

| Phase | Ingredients | INCI/INN | Wt (%) |
|-------|---|--|--------|
| A | Ultrapure Water | Water | To 100 |
| | Silsoft EAU microgel ^(a) | Polysilicone-34 (and) Isononyl Isononanoate (and) Water | 2.00 |
| B | Neo Heliopan [†] HMS ^(b) | Homosalate | 8.80 |
| | Neo Heliopan 303 ^(b) | Octocrylene/Octocrilene | 8.80 |
| | Neo Heliopan BB ^(b) | Benzophenone-3/Oxybenzone | 5.30 |
| | Neo Heliopan OS ^(b) | Ethylhexyl Salicylate/Octisalate | 4.40 |
| | Neo Heliopan 357 ^(b) | Butyl Methoxydibenzoylmethane/Avobenzone | 2.70 |
| | Promulgen [†] D Nonionic Emulsifier ^(c) | Cetearyl Alcohol (and) Ceteareth-20 | 1.50 |
| C | Silsoft ETS fluid ^(a) | Ethyl Trisiloxane | 2.00 |
| D | Silsoft 034 fluid ^(a) | Caprylyl Methicone | 3.00 |
| E | SS 4267 fluid ^(a) | Dimethicone (and) Trimethylsiloxysilicate | 3.00 |
| F | Silsoft E-Pearl PMF emulsion ^(a) | Polymethylsilsesquioxane (and) Dimethicone (and) Isohexadecane (and) Cetearyl Methicone (and) PEG-40 Stearate (and) Steareth-2 (and) Steareth-21 | 2.00 |
| G | Preservative | - | qs |

Procedure:

1. Combine Phase A ingredients and stir for at least 5 minutes with a U-shaped paddle at 100 RPM.
2. In a separate vessel, combine phase B ingredients and heat to 70 °C with stirring until homogenous.
3. Heat phase A ingredients to ~50°C.
4. Add phase B ingredients into phase A portion-wise while stirring, allow the system to become homogeneous between each addition of phase B.
5. Add Phases C-G one at a time while stirring.
6. Homogenize (Ultra Turrax 10,000 RPM) for 3 minutes.

Typical Physical Properties:

Appearance: creamy white gel
 pH: 6.0
 Viscosity: ~25,000 cP
 Stability: Freeze (-10°C, 12h)/Thaw (25°C, 12 h) 3 cycles. 45°C 2+wks, ongoing)
 Typical properties are average test data, may vary and are not to be used as or to develop specifications.

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[†]Trademarks of their respective owners.

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Suppliers:

- a. Momentive Performance Materials
- b. Symrise
- c. Lubrizol Advanced Materials, Inc.

Worldwide

commercial.services@momentive.com
T +1 614 986 2495
T +1 800 295 2392

For literature and technical assistance,
visit our website at:
www.momentive.com

Latin America

South America
T +55 11 4534 9660

Europe, Middle East, Africa and India

T +00 800 4321 1000
T +40 213 044229

Pacific

China
T +800 820 0202

Japan
T +81 276 20 6182

All Other Countries
T +60 3 9206 1543

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