

Everyday Moisturizer SPF 15 with Lysofix™ Liquid & Rosamox™

Formulation: KPC/PD12027.01

Phases	Ingredients	% w/w
A	Water	46.48
	Sodium Dehydroacetate	0.12
B	Microcrystalline Cellulose (and) Cellulose gum ¹	1.00
C	Glycerin	5.00
	Xanthan Gum	0.30
D	Lysofix™ Liquid - Glycerin (and) Glycine soja (Soybean) Seed Extract	5.00
E	Titanium Dioxide (and) Aqua (and) Polyglyceryl-2 Caprate (and) Sucrose Stearate (and) Simmondsia Chinensis (Jojoba) Seed Oil (and) Stearic Acid (and) Alumina (and) Glyceryl Caprylate (and) Squalane ²	16.00
F	Caprylic/Capric Triglycerides ³	11.00
	Rosamox™ - Helianthus Annuus (Sunflower) Seed Oil (and) Rosmarinus Officinalis (Rosemary) Leaf Extract	0.10
	Sunflower Oil	9.00
	Stearic Acid	3.50
	Behenyl Alcohol ⁴	1.50
G	Phenoxyethanol (and) Ethylhexylglycerin ⁵	1.00
		Total: 100

Bold denotes products available from Kemin.

¹Vivapur® COS 5 - J. Rettenmaier ²Solaveil™ XT-40W - Croda ³Jeechem CTG - Jeen Products ⁴Lanette® 22 - BASF

⁵Euxyl® PE 9010 - Schulke Inc.

Manufacturing Process:

1. Weigh Phase A in the main beaker.
2. Add Phase B to the main beaker while homogenizing for 15 minutes.
3. Pre-mix Phase C, add to the main beaker while homogenizing. Heat Main phase, while mixing, to 80-82°C.
4. Add Phase D to the main batch while homogenizing.
5. Add Phase E to the main batch while homogenizing.
6. Weigh Phase F and heat to 82-85°C. Add Phase F to the main batch, while homogenized mixing for 15 minutes while maintaining the temperature.
7. Switch to sweep mixing.
8. Add Phase G to the main batch at 45°C. Make up water lost and continue to cool until the batch is at 30°C.

Characteristics:

Appearance: Smooth and uniform

Centrifuge: No phase separation at RT and 40°C
4000 RPM, 30 minutes

Viscosity: Between 60,000-65,000 cP at 20°C
Brookfield Viscometer LVT T-bar 6,6 RPM

pH: Between 5.5 to 7.0 at 20°C

Emulsion Stability:

Results to date:

- Stable for 5 freeze-thaw cycles
- Stable for over 3 months at 40°C and over 2 months at 50°C

Distributed by:



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