

Night Cream with Lysofix™ Liquid, Rosamox™ & FloraGLO™ Lutein 5% Topical Liquid in Safflower Oil

Formulation: KPC/PD12026.02

Phases	Ingredients	% w/w
A	Water	62.63
	Sodium Dehydroacetate	0.12
B	Glycerin	3.00
	Xanthan Gum	0.30
C	Lysofix™ Liquid - Glycerin (and) Glycine soja (Soybean) Seed Extract	5.00
D	Behenyl Alcohol	4.00
	Diheptyl Succinate (and) Capryloyl Glycerin/Sebacic Acid Copolymer ¹	6.00
	Caprylic/Capric Acid	6.00
	<i>Helianthus annuus</i> (Sunflower) Seed Oil	8.00
	Glyceryl Stearate SE ²	3.75
E	Citric acid	q.s. to pH 5.5±0.5
F	FloraGLO™ Lutein 5% Topical Liquid in Safflower Oil - <i>Carthamus Tinctorius</i> (Safflower) Seed Oil (and) <i>Tagetes erecta</i> Flower Extract	0.10
	Rosamox™ - <i>Helianthus annuus</i> (Sunflower) Seed Oil (and) <i>Rosmarinus officinalis</i> (Rosemary) Leaf Extract	0.10
	G	Phenoxyethanol (and) Ethylhexylglycerin ³
		Total: 100

Bold denotes products available from Kemin.

¹LexFeel® N350 - Inolex ²Jeechem GMS-D - Jeen International ³Euyl® PE 9010 - Schulke, Inc.

Manufacturing Process:

1. Weigh Phase A ingredients in the main beaker, adjust homogenizer and water heater.
2. Premix Phase B and then add to main beaker while homogenizing. Heat the main beaker to 80-82°C.
3. Add Phase C to the main batch when heated and mix until uniform.
4. Combine Phase D ingredient and heat to 82-85°C. Add Phase D to the main batch and homogenize for 20 minutes and then switch batch to sweep mixing.
5. Add Phase E to the main batch at 45°C. Adjust the pH to 5.5±0.5 and mix well.
6. Add Phases F & G to the main batch while allowing to mix in between.
7. Cool the main batch to 30°C while mixing.

Characteristics:

Appearance:	Smooth, uniform cream
Color:	Light peach
Odor:	Fragrance-free
Centrifuge:	No separation at RT and 40°C 4000 RPM, 30 minutes
Viscosity:	5,000 cP - 10,000 cP Brookfield Viscometer LVT DV Pro II, TB Spindle, 12 RPM, 60 seconds
pH:	5.5 ± 0.5

Emulsion Stability:

Results to date:

- Stable for 3 months at RT and 45°C
- Stable for 5 freeze-thaw cycles

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