

# Cold Process Lotion with Lysofix™ Liquid

Formulation: KPC/PD12013.07

Phases	Ingredients	% w/w
A	Water	72.20
	Carbomer <sup>1</sup>	0.50
	Glycerin	3.00
B	<b>Lysofix™ Liquid - Glycerin (and) Glycine soja (Soybean) Seed Extract</b>	3.50
C	Safflower Oil	12.00
	Olive Oil	6.00
	Coco Caprylate	2.00
D	Sodium Hydroxide (33.33% Solution)	0.20
E	Phenoxyethanol (and) Caprylyl Glycol <sup>2</sup>	0.60
F	Water	q.s. to 100
		<b>Total: 100</b>

**Bold denotes products available from Kemin.**

<sup>1</sup>Carbopol®940 - Lubrizol <sup>2</sup>Optiphen® - International Specialty Products (ISP)

## Manufacturing Process:

1. Weigh Phase A ingredients.
2. Disperse Carbomer in water and let hydrate for 30 minutes.
3. Weigh and mix ingredients for Phase B and C.
4. Add Phase B and C to Phase A and emulsify for 30 minutes.
5. Add Phase D and adjust speed to the increase in viscosity.
6. Add Phase E and let mix for 5 minutes.
7. Make up volume with Phase F.
8. Mix for 30 minutes until uniform.

## Characteristics:

**Appearance:** Smooth, uniform and attractive lotion  
**Centrifuge:** No separation at RT and 40°C  
**Viscosity:** 17,000-22,000 cP at 20°C  
Brookfield Viscometer DV II+,  
Spindle 5, 20 RPM  
**pH:** 5.00±0.05 at 20°C

## Emulsion Stability:

### Results to date:

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



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