

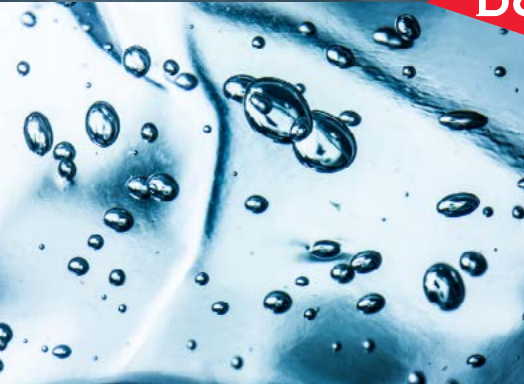


DOW

®

**Crystal Clear
Conditioning
Hand Soap
CPF 3017**

Liquid hand soap



Crystal Clear Conditioning Hand Soap (CPF 3017)

Phase	Trade name / supplier	INCI name	% Wt.
A	Deionized water	Deionized water	51.42
	SoftCAT™ SK-MH Polymer / Dow	Polyquaternium-67	10
B	Cocamidopropyl Betaine	Cocamidopropyl Betaine	3.6
	EcoSense™ 3000 Surfactant / Dow	Decyl Glucoside	5.13
	Calfoam ES-303 / Pilot Chemical	Sodium Lauryl Ether Sulfate	27.9
	Cocamide MEA	Cocamide MEA	0.9
	PEG-120 Methyl Glucose Dioleate	PEG-120 Methyl Glucose Dioleate	0.2
	Preservative	Preservative	0.4
	Sodium Chloride	Sodium Chloride	0.25
	Citric Acid	Citric Acid	0.1
	Fragrance	Fragrance	0.1

Disclaimer: Contained in this package is a sample prepared as per the formulation described on this card. Any variation in the formulation may cause performance to change.

Processing instructions:

1. Prepare a 2% solution of SoftCat™ SK-MH Polymer by sprinkling into agitating, room temperature water. Allow to disperse completely before beginning to heat slowly, with mixing, to 60-65°C. Solution should be crystal clear.
2. Mix Phase A in a beaker while heating to 50-55°C.
3. In a separate container, mix the ingredients of Phase B minus the Sodium Chloride and preservative of choice (qs), while heating to 50-55°C to dissolve the Cocamide MEA, PEG-120 Methyl Glucose Dioleate. Continue mixing until uniform.
4. At 50-55°C, add the contents of Phase A to Phase B. Continue mixing until uniform and begin to cool.
5. At 40°C, add Sodium Chloride, preservative and fragrance. While mixing, continue to cool to room temperature. Adjust PH to desired level using appropriate acid or base.

Additional note

This clear, liquid hand soap featuring of SoftCat™ SK-MH Polymer, a hydrophobically modified cationic hydroxyethylcellulose, noticeably improves skin feel after washing due to its conditioning properties. Viscosity: 2,000-3,000 cPs (20°C, 4, 20 rpms) pH: 5.5-6.5

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