



Sulfate Free Conditioning Shampoo (Low Surfactant Load)

INCI Name	Brand Name	Percent
Water	Water	57.82
Carbomer	Carbopol® Silk 100	0.40
NaOH (25% solution)	NaOH	0.20
Sodium Olefin Sulfonate	Sulfochem™ AOS-K	13.00
Coco-Betaine	Chembetaine™ ACB	13.00
Polyquaternium-53	Merquat™ 2003	1.20
Water	Water	10.00
Methylchloroisothiazolinone and Methylisothiazolinone	Kathon™ CG	0.05
NaCL	Salt	0.58
NaOH (25% solution)	NaOH	0.25
Glycol Distearate (and) Laureth-4 (and) Cocamidopropyl Betaine	Quickpearl™ PK3	3.50
		100.00%

Add water to Main and sprinkle in Carbopol® Silk 100 under mixing and slight heat (45°C). Once dispersed add NaOH to main viscosity will build and product will become clear. Add surfactants one at a time and mix until uniform. Premix Merquat™ 2003 and water in a side vessel. When product is dispersed add to main. Mix until uniform. Add Kathon™ CG to main mixing until dispersed before moving on. Add salt and remaining NaOH as desired for final viscosity and pH. Add Quickpearl™ PK-3 and mix until uniform. Cool batch and remove.

Viscosity: 10,900

pH: 5.21

Formula Number: 3429

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