



2 in 1 Shampoo with SilPlex J2-S

Formulation: FH176

<u>Phase</u>	<u>Ingredient</u>	<u>INCI Name</u>	<u>%w/w</u>
Part A	Water	Aqua	42.45
	Jaguar Excell (Rhodia)	Guar Hydroxypropyltrimonium Chloride	0.20
Part B	Citric Acid	Citric Acid	0.01
	Disodium EDTA	Disodium EDTA	0.15
Part C	Sodium Laureth (2) Sulfate (Stepan)	Sodium Laureth Sulfate	48.00
	Glycol Distearate (Stepan)	Glycol Distearate	2.00
	Cetyl Alcohol (Croda)	Cetyl Alcohol	0.30
	Tritexamide OC (Tri-tex)	Coco/Oleamidopropyl Betaine	3.00
	SilPlex J2-S (Siltech)	Silicone Quaternium-20	2.00
Part D	Sodium Chloride	Sodium Chloride	1.50
	Fragrance #8306-8937 (Aromatics & Flavors Inc.)	Fragrance	0.30
	Kathon CG (Rohm & Haas)	Methylchloroisothiazolinone,	<u>0.09</u>
		Methylisothiazolinone	
			<u>100.00</u>

Procedure:

1. Into a cleaned and sanitized stainless steel tank equipped with a propeller mixer, sift into water the Jaguar Excell and mix until a uniform solution forms. Begin heating to 70°C.
2. Add the Citric Acid and Disodium EDTA and mix until dissolved.
3. To the batch add the Sodium Laureth Sulfate, Glycol Distearate, Cetyl Alcohol, Tritexamide OC and the SilPlex J2-S and heat to 70°C while mixing. Do not incorporate air.
4. When batch is uniform and homogenous, cool to 50°C and add the Fragrance and Kathon CG.
5. Cool further to 30°C, make pH adjustments if necessary with Citric Acid, and add Sodium Chloride with incremental amounts to achieve desired viscosity.

Appearance: Smooth, uniform and creamy. pH 5.5-6.0.

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