## SILKY SMOOTH CONDITIONER

with BotaniDesign<sup>™</sup>, StarDesign<sup>™</sup> Care, Actigum<sup>™</sup> CS 11 QD and StarDesign<sup>™</sup> Power



A creamy, luscious conditioner with **BotaniDesign™** provides conditioning effect for ease of combing, helping to prevent hair breakage while keeping hair soft and smooth!

Phase	Trade Name	INCI	Supplier	%WT
A	Demineralized water	Aqua		88.89
	Glycerin	Glycerin	Cargill	1.00
	Actigum™ CS 11 QD	Sclerotium Gum	Cargill	0.50
	StarDesign™ Care	Hydroxypropyl Starch Phosphate	Cargill	4.50
	StarDesign <sup>™</sup> Power	Sodium Starch Octenylsuccinate (and) Hydroxypropyl Starch Phosphate	Cargill	2.00
В	BotaniDesign™	Hydrogenated Vegetable Glycrides	Cargill	2.00
С	Iscaguard PE	Phenoxyethanol	ISCA	1.00
	Vitamin E	D-Alpha Tocopheryl Acetate	Cargill	0.10
	Ciric Acid	Citric Acid	Cargill	0.014

## CHARACTERISTICS

- Appearance: creamy white conditioner
- **pH:** 4.0 5.0

DERIVER

- Stability: Passed 8 week stability at 4°C, RT, 45°C and UV. Passed 4 cycles of Freeze/Thaw.
- Viscosity (Brookfield RV DV-II + Pro 20rpm, RV-6): 14,000 18,000 mPas

## PROCESS

- 1. Weigh water in a beaker and put under propeller mixing.
- 2. In a weigh boat, weigh Actigum<sup>™</sup> CS 11 QD and glycerin to create a pre-mix. Add to beaker under mixing and heat to 65°C.
- 3. Weigh raw materials in Phase B and heat to 60-65°C until fully melted.
- 4. When Phase A reaches 65°C, homogenize at 6000 rpm for 5 minutes. Add StarDesign<sup>™</sup> Power and StarDesign<sup>™</sup> Care under homogenizer at 8,000 rpm and mix for an additional 5 minutes.
- 5. Add Phase B to Phase A slowly under homogenization at 8,000 rpm for 10 minutes. Remove from homogenizer and move to propeller mixer and mix slowly to avoid aeration. Begin cooling.
- 6. When temperature reaches 40°C, add preservative and Vitamin E one at a time under propeller mixing. Adjust pH to 4-5 using Citric Acid.



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