

# SILKY SMOOTH CONDITIONER

with BotaniDesign™, StarDesign™  
Care, Actigum™ CS 11 QD and  
StarDesign™ 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
	<b>Glycerin</b>	<b>Glycerin</b>	<b>Cargill</b>	<b>1.00</b>
	<b>Actigum™ CS 11 QD</b>	<b>Sclerotium Gum</b>	<b>Cargill</b>	<b>0.50</b>
	<b>StarDesign™ Care</b>	<b>Hydroxypropyl Starch Phosphate</b>	<b>Cargill</b>	<b>4.50</b>
	<b>StarDesign™ Power</b>	<b>Sodium Starch Octenylsuccinate (and) Hydroxypropyl Starch Phosphate</b>	<b>Cargill</b>	<b>2.00</b>
B	<b>BotaniDesign™</b>	<b>Hydrogenated Vegetable Glycrides</b>	<b>Cargill</b>	<b>2.00</b>
C	Iscaguard PE	Phenoxyethanol	ISCA	1.00
	<b>Vitamin E</b>	<b>D-Alpha Tocopheryl Acetate</b>	<b>Cargill</b>	<b>0.10</b>
	<b>Ciric Acid</b>	<b>Citric Acid</b>	<b>Cargill</b>	<b>0.014</b>

## CHARACTERISTICS

- **Appearance:** creamy white conditioner
- **pH:** 4.0 - 5.0
- **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™ 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™ Power and StarDesign™ 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.

