

## Glacial Coconut Cream Soap

Sr No.	INCI Name, Trade Name	Weight %	Function
<b>Phase A</b>			
1.	Water	20.30	Diluent
2.	Acrylates Crosspolymer-4 (32% TS)	8.00	Rheology Modifier
<b>Phase B</b>			
3.	Sodium Hydroxide (18% solution)	2.10	Neutralizer
<b>Phase C</b>			
4.	Potassium Cocoate (39% TS) *	18.00	Surfactant
5.	Coconut Oil*	1.00	Emollient
6.	Cocamidopropylamine betaine (30% active) *	4.00	Surfactant
7.	Glycerin*	3.00	Humectant
<b>Phase D</b>			
8.	Prunus Amygdalus Dulcis (Sweet Almond) Oil*	40.00	Emollient
9.	BHT	0.10	Antioxidant
<b>Phase E</b>			
10.	Ethylhexyl Glycerin (and) Phenoxyethanol, Euxyl® PE 9010	0.50	Preservative
11.	Glacial Green Clay*	2.00	Clay
12.	Fragrance, Ginger SCE 362349	1.00	Fragrance

**\*These materials are supplied by Cedar Trends & Innovation**

### Procedure:

- Phase A:** In a suitable vessel, charge deionized water. Then, add Carbopol®\* Aqua SF-2 polymer with gentle mixing.
- Phase B:** Adjust batch to pH 8.5–9.5 with Sodium Hydroxide (18%). Mix until uniform.
- Add **Phase C** ingredients to batch one by one with gentle mixing.
- Phase D:** In a separate vessel, solubilize BHT in Sweet Almond Oil. Add the mixture to the main vessel. Transfer to Ultra-Turrax® homogenizer (IKA) at 6,000 rpm for 1 minute.
- Add **Phase E** ingredients to batch one by one with gentle mixing. Mix until uniform.

### Product Properties:

Appearance: Yellowish opaque emulsion cleanser

pH: 8.5–9.5

Viscosity (mPa·s)\*\* 7,000–12,000

Yield Value (dyn/cm<sup>2</sup>) 250–400

Stability: Passed 1 month @ 50 °C; passed 2 months @ 45 °C, 25 °C, and 4 °C; passed 5 freeze/thaw cycles

Surfactant (% TS/Active) 8.52

Polymer (% TS) 2.56