

Sulfate-Free Acne Cleanser

CL-F0014

This sulfate-free salicylic acid facial wash with nourishing beads demonstrates the cationic compatibility, thickening, suspension and clarity provided by **Carbopol® * Aqua CC Polymer** in a low pH application. This formula presents a gentle cleanser with a proven acne-fighting ingredient that treats blemishes and helps prevent breakouts, without irritating skin.

	INCI Name, Trade Name	Weight %	Function
A.	1. Deionized Water	30.74	Diluent
	2. Polyacrylate-1 Crosspolymer (20%), Carbopol® * Aqua CC Polymer	6.96	Rheology Modifier
	3. Sodium C14-C16 Olefin Sulfonate (40%), Bio-Terge® AS-40	17.50	Surfactant
	4. Citric Acid (50%)	1.00	Acidifier
B.	5. Deionized Water	10.00	Diluent
	6. Sodium C14-C16 Olefin Sulfonate (40%), Bio-Terge® AS-40	17.50	Surfactant
	7. Salicylic Acid	2.00	Anti-Acne Agent
C.	8. Cocamidopropyl Betaine (35%), Chembetaine™* CAD Surfactant	10.00	Surfactant
	9. Glycerin	1.00	Humectant
	10. PEG/PPG-8/3 Laurate, Hydramol™* PGPL Ester	1.00	Moisturizer
	11. Tocopheryl Acetate, Vitamin E Acetate	0.10	Antioxidant
	12. Melaleuca Alternifolia (Tea Tree) Leaf Oil, Propylene Glycol, Herbasol® Tea Tree Extract PG	0.10	Botanical Extract
	13. Hamamelis Virginiana (Witch Hazel) Extract, Propylene Glycol, Herbasol® Witch Hazel Extract PG Decolorized	0.10	Botanical Extract
	14. FD&C Green No. 3 (0.1%)	0.50	Dye
15. Tocopheryl Acetate, Lactose, Cellulose, Hydroxypropyl Methylcellulose, (and) Iron Oxide Unispheres® YE-501	1.00	Vitamin	
D.	16. Citric Acid (50%)	0.50**	Acidifier

** q.s. to pH 4.0

Procedure:

1. Combine **PART A** ingredients in order. Pre-neutralize with citric acid. Mix until uniform.
2. In a separate vessel, combine **PART B** ingredients. Mix salicylic acid until completely dissolved.
3. Add **PART B** to **PART A**. Mix until uniform.
4. Add **PART C** ingredients to **PART A** in order. Mix until uniform.
5. Adjust final pH to pH 4.0 with citric acid.

Product Properties:

pH	3.9 – 4.1
Viscosity (mPa-s)***	3,500 – 6,000
Yield Value (dyn/cm ²)	150 - 250
Turbidity (NTU)****	22 - 26
Stability:	Passed 3 months @ 45°C, 5 cycles freeze/thaw

Carbopol® * Aqua CC Polymer Actives (%) 1.4

Surfactant Actives (%) 17.5

*** Brookfield RVT @ 20 rpm, 25°C, #5 spindle, measured after 24 hours

**** HF Scientific, Inc., Micro 100 Turbidimeter

Supplier References:

Noveon, Inc. (2, 8, 10)

Stepan (3, 6)

Aldrich (4, 16)

Fisher (7)

Acme-Hardesty or Protameen (9)

BASF (11)

Cosmetochem (12, 13)

Quantum Colours (14)

Induchem (15)

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