

Clear Salicylic Acid Facial Wash with Suspended Beads

CL-F0013

This clear low pH facial wash, designed for problem skin, showcases the ability of **Carbopol®* Aqua SF-1 Polymer** to suspend beads, by providing yield value, and thicken a low pH formulation. **Glucam™* E-10 Humectant** moisturizes the skin, leaving it smooth, silky and elegant. **SilSense®* Q-Plus Silicone** provides further conditioning without leaving a greasy or heavy afterfeel.

	INCI Name, Trade Name	Weight %	Function
A.	1. Sodium C14-16 Olefin Sulfonate (40%), <i>Bio-Terge® AS-40</i>	40.00	Surfactant
	2. Deionized Water	9.95	Diluent
	3. Acrylates Copolymer (30%), Carbopol®* Aqua SF-1 Polymer	6.00	Rheology Modifier
	4. Sodium Hydroxide (18%)	1.00**	Neutralizer
B.	5. Cocamidopropyl Betaine (35%), Chembetaine™* CAD Surfactant	10.00	Surfactant
C.	6. Deionized Water	10.00	Diluent
	7. Sodium C14-16 Olefin Sulfonate (40%), <i>Bio-Terge® AS-40</i>	15.00	Surfactant
	8. PEG-7 Glyceryl Soyate (100%), Chemonic™* SI-7 Surfactant	2.00	Surfactant / Emollient
	9. Salicylic Acid, USP	2.00	Anti-Acne Agent
D.	10. Silicone Quaternium-8, SilSense®* Q-Plus Silicone	1.00	Conditioner
	11. Salix Alba (Willow) Bark Extract, Propylene Glycol, Sorbitol, <i>Herbasol® Willow Bark Extract PG (Decolorized)</i>	0.50	Botanical Extract
	12. Methyl Gluceth-10, Glucam™* E-10 Humectant	1.00	Humectant
E.	13. Citric Acid (50%)	0.80***	Acidifier
	14. Tocopheryl Acetate, Mannitol, Cellulose, Hydroxypropyl Methylcellulose, Triethyl Citrate, Mica, Acrylates, Ammonium Methacrylate Copolymer, Talc, Titanium Dioxide, CI 77492 (US: Iron Oxides), CI 77491 (US: Iron Oxides), <i>Unispheres™ NTL-3212C (Gold)</i>	0.75	Vitamin

Product Properties:

pH	3.8 – 4.2
Viscosity (mPa·s)****	6,000 – 10,000
Yield Value (dyn/cm ²)	100 – 200
Turbidity (NTU)*****	0 – 40
Stability:	Passed 3 months @ 45°C, 5 cycles freeze/thaw

Carbopol®* Aqua SF-1 Polymer

Actives (%)	1.8
Surfactant Actives (%)	27.5

**** Brookfield RVT @ 20 rpm, 25°C, #4 spindle, measured after 24 hours

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

Supplier References:

- Stepan (1, 7)
- Lubrizon Advanced Materials, Inc.**
(Noveon® Consumer Specialties) (3, 5, 8, 10, 12)
- Fisher Scientific (9)
- Cosmetochem (11)
- Induchem (14)

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q.s. to adjust to pH 6.8, * q.s. to adjust pH to 3.8 – 4.2

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For more information visit www.personalcare.noveon.com or contact your nearest Lubrizon Advanced Materials location.

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Procedure:

1. Add the Bio-Terge® AS-40 to the main batch vessel.
2. In a separate vessel, pre-mix **Carbopol® Aqua SF-1 Polymer** in deionized water.
3. With good mixing, slowly add the pre-mix of **Carbopol® Aqua SF-1 Polymer** and water to the main vessel containing the Bio-Terge® AS-40.
4. Neutralize the batch with Sodium Hydroxide, adjusting the pH to 6.8.
5. Add **Chembetaine™* CAD Surfactant** to the main batch.
6. In a separate vessel pre-mix the **PART C** ingredients. Slowly add the **PART C** ingredients to the main batch. Mix until uniform.
7. Add the **PART D** ingredients to the batch in order. Mix until uniform.
8. Add the citric acid (50%) to the batch, adjust the pH to 3.8 – 4.2.
9. De-aerate the final batch and then carefully add the Unispheres™.