

# Astringent Facial Toner Gel

S-SG0006

This astringent gel tones and tightens skin, while removing oil from the pores. The **Fixate®\* G-100 Polymer** serves as a film-former and provides the tightening effect, while the **SilSense™\* Copolyol-1 Silicone** leaves the skin with a smooth, conditioned feel.

	INCI Name, Trade Name	Weight %	Function
<b>A.</b>	1. Deionized Water	64.51	Diluent
	2. Benzophenone-4, <i>Uvinul® MS-40</i>	0.04	UV Absorber
	3. Disodium EDTA, <i>Protacide NA-2</i>	0.01	Chelating Agent
	4. <b>FD&amp;C Blue No.1 (0.1%)</b>	0.35	Dye
	5. <b>D &amp; C Yellow No. 5 (0.1%)</b>	0.52	Dye
	6. Acrylates/C10-30 Alkyl Acrylate Crosspolymer, <b>Carbopol®* Ultrez 21 Polymer</b>	1.00	Rheology Modifier
<b>B.</b>	7. Deionized Water	3.00	Diluent
	8. PEG-33 and PEG-8 Dimethicone and PEG-14, <b>SilSense™* Copolyol-1 Silicone</b>	0.20	Conditioner
<b>C.</b>	9. Ethanol, <i>Ethanol, 200 Proof</i>	20.00	Astringent
	10. Methylparaben	0.15	Preservative
	11. Propylparaben	0.05	Preservative
<b>D.</b>	12. Cymbopogon Schoenanthus (Lemongrass) Extract, Propylene Glycol, <b>Herbasol® Lemongrass Extract PG</b>	1.00	Botanical Extract
	13. Hedera Helix (Ivy) Extract, Propylene Glycol, <b>Herbasol® Ivy Extract PG</b>	1.00	Botanical Extract
	14. Equisetum Arvense (Horestail) Extract, Propylene Glycol, <b>Herbasol® Horsetail Extract PG</b>	1.00	Botanical Extract
	15. Yucca Vera (Yucca) Extract, Propylene Glycol, <b>Herbasol® Yucca Extract PG</b>	5.00	Botanical Extract
	16. AMP-Acrylates/Allyl Methacrylate Copolymer (26%), <b>Fixate®* G-100 Polymer</b>	1.92	Fixative
	17. Aminomethyl Propanol (95%), <b>AMP-95®</b>	0.25	Neutralizer

## Procedure:

1. Part A: Combine ingredients 1-5 with mixing in a suitable vessel for the entire batch.
2. When uniform, STOP AGITATION. Sprinkle ingredient 6 and wait until the polymer has completely "wetted out", then begin agitation. Mix for about 10 minutes.
3. Part B: In a separate vessel, pre-mix ingredients 7 & 8 until clear, add to Part A (main batch).
4. Part C: In a separate vessel, pre-mix ingredients 9 - 11 until clear. SLOWLY add to Part A (main batch).
5. Add ingredients 12-13 to main batch.
6. Check total solids of the lot of Fixate®\* G-100 Polymer to be used, and adjust amount to be used in formula to 0.5% solids. Add ingredient SLOWLY with mixing.
7. When batch is uniform, add ingredient 15 to adjust pH to 5.8 - 6.1 for optimum clarity and viscosity.
8. Mix until uniform.

## CONSUMER USE INSTRUCTIONS:

1. Apply thick layer of gel to face, avoiding eye and mouth area.
2. Allow to dry for 5 minutes.
3. Rinse face with water.

## **Product Properties:**

Appearance	Viscous, clear green gel
PH	5.8 - 6.1
Viscosity (mPa·s)**	30,000 - 40,000
Yield Value (dyn / cm <sup>2</sup> )	2,000 - 3,000
Turbidity (NTU)	0 - 5
Stability:	Passed 2 months @ 45°C, 5 cycles freeze/thaw

**Fixate<sup>®</sup> G-100 Polymer (%TS) 0.5**

\*\* Brookfield RVT @ 20 rpm, 25°C, #6 spindle

## **Supplier References:**

BASF (2)

Dow (3)

**Quantum Colours (4, 5)**

**Noveon, Inc. (6, 8, 16)**

Aaper (9)

Protameen (10, 11)

Cosmetochem (12, 13, 14, 15)

Dow / Angus (17)

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