

# Aloe Vera Gel Moisturizer

S-SG0007

This clear aloe vera gel, thickened with **Carbopol®\* Ultrez Polymer**, is an excellent gel for soothing sunburn and other skin irritations and may promote healing.

	INCI Name, Trade Name	Weight %	Function
<b>A.</b>	1. Deionized Water	87.20	Diluent
	2. Acrylates/C10-30 Alkyl Acrylate Crosspolymer, <b>Carbopol®* Ultrez 20 Polymer</b> - OR - <b>Carbopol®* Ultrez 21 Polymer</b>	0.80	Rheology Modifier
	3. DMDM Hydantoin (and) Iodopropynyl Butylcarbamate, <b>Glydant® Plus</b>	0.30	Preservative
	4. Sodium Hydroxide (18%)	0.60	Neutralizer
<b>B.</b>	5. Deionized Water	5.00	Diluent
	6. PEG-33 and PEG-8 Dimethicone and PEG-14, <b>SilSense™* Copolyol-1 Silicone</b>	1.00	Moisturizer
	7. Disodium EDTA, <b>Versene® NA</b>	0.20	Chelating Agent
	8. Aloe Vera Gel (40:1), <b>Aloe Vera Gel Decolorized, 40X</b>	2.50	Moisturizer
<b>C.</b>	9. <b>D&amp;C Green No. 8 (1.0%)</b>	0.20	Dye
	10. <b>D&amp;C Green No. 5 (0.1%)</b>	0.20	Dye
	11. Sodium Hydroxide (18%)	2.00**	Neutralizer

\*\* Q.S. to pH 6.8 – 7.3

## Procedure:

### PART A:

1. Sprinkle **Carbopol®\* Ultrez Polymer** on surface of deionized water. Allow to wet. Begin gentle mixing.
2. Add Glydant® Plus.
3. Partially neutralize **Carbopol®\* Polymer** and water mixture with NaOH. Mix until smooth.

### PART B:

1. In a side vessel, heat water to 50° - 55°C, premelt **SilSense™\* Copolyol-1 Silicone** and add to water. Mix until well dispersed.
2. Dissolve disodium EDTA in mixture.
3. Add aloe (40:1) to mixture. (Note: warm up aloe to room temperature before adding if stored in refrigerator).
4. When mixture is uniform, add PART B to PART A. Mix until uniform.
5. Add desired color.
6. Adjust final pH to 6.8 – 7.3 with sodium hydroxide (18%) for optimum clarity.

## Product Properties:

	<u>Ultrez 21</u>	<u>Ultrez 20</u>
Appearance	Thick, green gel	Thick, green gel
PH	6.8 – 7.3	6.8 – 7.3
Viscosity (mPa s)***	12,000 – 22,000	18,000 – 28,000
Yield Value (dyn/cm <sup>2</sup> )	600 - 1,000	1,200 - 1,700
Turbidity (NTU)****	4-10	1-5

\*\*\* Brookfield RVT @ 20 rpm, 25°C, #6 spindle, measured after 24 hours

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

**Supplier References:**  
**Noveon, Inc. (2, 6)**  
Lonza (3)  
Dow (7)  
Terry Labs (8)  
**Quantum Colours (9, 10)**

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