

Clear Conditioning Styling Gel Using Carbopol[®] Ultrez 10 Polymer

This crystal clear styling gel contains a cationic conditioning agent and moisturizing "Phytoamine Biocomplex".

Ingredient /INCI-CTFA Name	Weight, %	Function	Trade Name (Supplier)
PART A			
Deionized Water	71.45	Diluent	
Carbomer	0.55	Thickener	Carbopol[®] Ultrez 10 Polymer (Noveon, Inc.)
PART B			
Deionized Water	12.00	Diluent	
PVP/VA Copolymer (50%)	7.50	Hair Setting Resin	Luvaskol [®] VA-73W (BASF)
Triethanolamine (99%)	0.20	Neutralizer	
PART C			
Deionized Water	5.00	Diluent	
Benzophenone-4	0.05	UV Absorber	Uvinul [®] MS-40 (BASF)
Disodium EDTA	0.05	Chelating Agent	
PART D			
Propylene Glycol (and) Diazolidinyl Urea (and) Methylparaben (and) Propylparaben	1.00	Preservative	Germaben [®] II (Sutton)
Polyquaternium-39	1.50	Hair Conditioner	Merquat [®] Plus 3330 (Calgon)
Acetamide MEA	0.20	Humectant	Mackamide [™] AME-75 (McIntyre)
Comfrey Extract (and) Plantain Extract (and) Hydrolyzed Wheat Protein (and) Amino Acids	0.50	Moisturizer	Moisturizing Phytoamine Biocomplex (Alban Muller)

* Based on Formulation C0059
(previous edition date 1/20/97)

(OVER)
2150-94-638

PROPERTIES:

pH	5.05 - 5.15
Viscosity* (mPa·s)	12,000 - 16,000
Clarity** (%T)	78 - 88

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

**Brinkmann PC801 colorimeter, 420 nm

PREPARATION PROCEDURE:

1. PART A: Sprinkle **Carbopol® Ultrez 10 polymer** on the surface of deionized water. After the polymer is thoroughly wetted, mix at a slow speed.
2. Combine PART B ingredients and mix until uniform.
3. Slowly add PART B to PART A. Mix thoroughly until complex is dissolved.
4. PART C: Dissolve benzophenone-4 in half of the warm deionized water, then separately dissolve disodium EDTA in the remaining warm deionized water. Mix until all materials are dissolved and separately add to batch.
5. Add all remaining ingredients in PART D in order to batch. Mix until uniform.
6. Adjust pH to 5.2 - 5.3 with additional triethanolamine for optimum clarity.