

Curling Spray Potion

S-X0019

This formula is a conditioning spray to protect and moisturize hair against damage from curling and flat irons. **Fixate®* G-100 Polymer** is present to maintain body and hold. **Hydramol™* PGPL Ester** and **Schercomid™* AME Humectant** are both moisturizers and conditioners. **SilSense™* A-23 Silicone** leaves hair smooth and shiny.

	INCI Name, Trade Name	Weight %	Function
A.	1. Deionized Water	89.18	Diluent
	2. Disodium EDTA, <i>Protachem NA2-P</i>	0.05	Chelating Agent
	3. Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Carbopol®* Ultrez 21 Polymer	0.20	Rheology Modifier
B.	4. Deionized Water	1.00	Diluent
	5. Aminomethyl Propanol (95%), <i>AMP-Ultra™ PC 2000</i>	0.17	Neutralizer
C.	6. PEG/PPG-8/3 Laurate, Hydramol™* PGPL Ester	1.25	Emollient
	7. AMP-Acrylates/Allyl Methacrylate Copolymer (26%), Fixate®* G-100 Polymer	6.00	Fixative
	8. PEG-7 Amodimethicone, SilSense™* A-23 Silicone	0.50	Conditioner
	9. DMDM Hydantoin (and) Iodopropynyl Butylcarbamate, <i>Glydant Plus®</i>	0.40	Preservative
	10. Acetamide MEA, Schercomid™* AME-70 Humectant (70%)	0.70	Humectant
11. Panthenol, <i>DL-Panthenol CG (50% liquid)</i>	0.50	Conditioner	
D.	12. D&C Green No. 8 (1% soln)	0.05	Dye

Procedure:

1. Add warm (~40°C) deionized water to mixing vessel. Dissolve Disodium EDTA into the water with good agitation.
2. Disperse **Carbopol®* Ultrez 21 Polymer** by sprinkling on the surface of warm deionized water. After polymer has wetted, mix slowly for 10 minutes.
3. In a separate vessel, combine ingredients in PART B and mix until clear.
4. Add PART B to PART A and mix until homogenous.
5. Add ingredients in PART C in the order shown and mix until batch is clear and homogenous.
6. Add color in PART D.

Note: Recommended Pump: Calmar Mark VI® Fine Mist Sprayer, 24mm – 410 WHT. 16CC, WHT HD NAT CPP Hood, 302 SS 0.57" IND

Product Properties:

Appearance	Translucent neon green liquid
pH	6.0 – 6.6
Viscosity (mPa-s)**	<100
Total Solids (%)	2.0 – 7.0
Specific Gravity (g/ml)	0.98 – 1.03
Turbidity (NTU)	3 – 10
Stability:	Passed 3 months @ 40 °C, 1 month @ 50 °C, 3 cycles freeze/thaw

Fixate®* G-100 Polymer (% TS) 1.60

** Brookfield RVT @ 20 rpm, 25 °C, #1 spindle, measured after 24 hours

Supplier References:

Protameen (2)

Noveon, Inc. (3, 6, 7, 8, 10)

Angus / Dow (5)

Lonza (9)

DSM Nutritional Products (11)

Quantum Colours (12)

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