



PERFORMANCE INSPIRED INGENUITY

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## **Satin Spray**

### Conditioning Hair Spray

#### Description:

Satin Spray is a hair spray that conditions hair, leaving a satiny-soft, manageable hair quality. **Silmer® G-162** is a silicone elastomer gel diluted in a cyclopentasiloxane carrier. The carrier is evaporative and provides a light, satiny feel as it is worked into hair. The elastomer gel imparts a conditioning effect that remains on the hair follicles, reducing combing forces and helping to tame fly-aways. Satin Spray provides premium performance and a sensorial that users desire!

#### Ingredients:

Phase	Description (supplier)	INCI Name	Wt.%
A	D.I Water	Water	87.54
	Versene Na2 (Dow)	Disodium EDTA	0.10
	Silquat NS C16 (Stepan)	Cetrimonium Chloride	0.66
B	<b>Silmer G-162 (Siltech)</b>	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	5.00
	Isopar L (Univar)	C11-13 Isoalkane	5.00
	Crodacol C95 Flake (Croda)	Cetyl Alcohol	0.42
	Crodacol S95 Flake (Croda)	Stearyl Alcohol	0.18
C	Citric Acid Powder (Amson Naturals)	Citric Acid	0.10
	Euxyl PE 9010 (Ashland)	Phenoxyethanol (and) Ethylhexylglycerin	1.00
Total			100.00

#### Procedure:

- 1) In a clean and sanitized beaker, weigh out water and dissolve Disodium EDTA. Add Cetrimonium Chloride. Begin mixing low and heating to 65-70°C.
- 2) In a separate clean sanitized beaker, solubilize Silmer Sustain-H in Isoparaffin until liquid is completely free of lumps.
- 3) Add waxes to Silmer-Isoparaffin solution and begin to heating to 65-70°C while mixing until waxes are completely melted.
- 4) When both phases are around 65-70°C, add Phase B into Phase A while mixing at high sheer ~1000-1500rpm.
- 5) Add Citric Acid, and continue mixing at high sheer.
- 6) Remove batch from heat and continue mixing at high sheer.
- 7) Homogenize batch at >6000rpm using Sylverson homogenizer.
- 8) Return to mixer and add preservative under low-medium speed.

Product formulations are included as illustrative examples. Siltech Corporation makes no representation or warranty of any kind with regard to any such formulations, including, without limitation, concerning the efficacy or safety of any product manufactured using such formulations.

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