

Super Hold Hair Gel

S-G0001

	INCI Name, Trade Name	Weight %	Function
A.	1. Deionized Water	67.10	Diluent
	2. Carbomer, Carbopol®* 940 Polymer	0.65	Rheology Modifier
	3. Triethanolamine (99%)	0.35	Neutralizer
B.	4. SD Alcohol-40	20.00	Solvent
	5. VP/VA Copolymer (100%), <i>Luvisko® VA 64 Powder</i>	8.50	Fixative
	6. Panthenol, <i>DL-Panthenol</i>	0.10	Conditioner
C.	7. Oleth-20, Chemonic™* OE-20 Solubilizer	0.40	Solubilizer
	8. Fragrance, <i>Fresh Woody Floral D11465E</i>	0.10	Fragrance
	9. PEG/PPG-18/18 Dimethicone, <i>Dow Corning® 190 Surfactant</i>	0.05	Plasticizer
	10. PEG-45 Palm Kernel Glycerides, <i>Croval® PK-70</i>	0.02	Conditioner
D.	11. Benzophenone-4, <i>Univil® MS 40</i>	0.01	UV Stabilizer
	12. D&C Green No. 5 (0.1%)	1.77	Dye
	13. Propylene Glycol, Diazolidinyl Urea, Methylparaben, Propylparaben, <i>Germaben® II</i>	0.80	Preservative
	14. Triethanolamine (99%)	0.15	Neutralizer

Procedure:

1. Disperse **Carbopol®* 940 Polymer** in rapidly-agitating, room temperature deionized water. Mix until a uniform dispersion is produced.
2. Neutralize the dispersion with triethanolamine (**PART A**), mix until uniform. This finishes **PART A**.
3. Dissolve VP/VA copolymer and panthenol in SD alcohol-40. This finishes **PART B**.
4. Slowly add **PART B** to **PART A** with moderate mixing until smooth.
5. Heat Oleth-20 until clear. Add fragrance, PEG/PPG-18/18 dimethicone, and PEG-45 palm kernel glycerides. Mix until uniform. This finishes **PART C**.
6. Slowly add **PART C** to **PART A/B** with moderate mixing. Mix until uniform.
7. Add the ingredients of **PART D** in order with moderate mixing to finish product.

Product Properties:

pH 5.8 – 6.3

Viscosity (mPa s)** 42,000 – 46,000

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

Supplier References:

Noveon, Inc. (2, 7)

Ashland (3, 14)

BASF (5, 11)

DSM Nutritional (6)

Symrise (8)

Dow Corning (9)

Croda (10)

Quantum Colours (12)

ISP (13)

COMMENTS:

1. Due to the high level of alcohol in this formulation, it is recommended that customers review the environmental and regulatory requirements of the states and countries where they wish to market this type of product to be sure that they are in compliance with local VOC regulations (i.e. California, New York, Texas).
2. Due to the high level of flammable ingredients, follow safety precautions appropriate for the handling of flammable liquids.

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