

# Clear Shaving Gel

**M-0014(EU)**

This clear, non-foaming shaving gel offers conditioning and lubrication for the skin. **Carbopol® Ultrez 20 Polymer** provides effective viscosity and excellent clarity, while improving surface contact for a closer, smoother shave. This gel also contains **Glucquat™ 125 Humectant** for comfortable skin conditioning, as well as Aloe Vera to soothe and condition the skin.

	INCI Name, Trade Name	Weight %	Function
<b>A.</b>	1. Deionized Water	67.93	Diluent
	2. Blue 1 (CI 42090), (0.10 %)	0.35	Dye
	3. Acrylates/C10-30 Alkyl Acrylate Crosspolymer, <b>Carbopol® Ultrez 20 Polymer</b>	1.20	Rheology Modifier
	4. Sodium Laureth Sulfate (28%, 2 mole), <i>Zetesol NL-2 U</i>	12.50	Surfactant
	5. Sodium Hydroxide (18%)	0.40	Neutralizer
<b>B.</b>	6. Cocamidopropyl Betaine (40%), <i>Tego® Betain F 50</i>	2.50	Surfactant
	7. Sodium Hydroxide (18%)	1.80	Neutralizer
<b>C.</b>	8. Disodium EDTA, <i>Edeta® BD</i>	0.02	Chelating Agent
	9. Deionized Water	2.00	Diluent
<b>D.</b>	10. Glycerin	5.00	Humectant
	11. Phenoxyethanol, Methylparaben, Propylparaben (and) Ethylparaben, <i>Phenonip® XB</i>	0.70	Preservative
	12. Aloe Barbadensis Leaf Juice, <i>Aloe Vera Gel Concentrate 10x CG</i>	1.00	Moisturizer / Conditioner
	13. Polyquaternium-39 (10%), <i>Merquat® 3330</i>	0.70	Skin Conditioner
	14. Lauryl Methyl Gluceth-10 Hydroxypropyldimonium Chloride (25%), <b>Glucquat™ 125 Humectant</b>	3.00	Humectant
<b>E.</b>	15. Fragrance, <i>Aquarys Shv. Ref. 5221146</i>	0.45	Fragrance
	16. Polysorbate 20, <i>Tween™ 20</i>	0.45	Solubilizer

### Product Properties:

Appearance	Clear blue gel
pH	5.7 – 6.3
Viscosity (mPa·s)**	14,000 – 20,000
Yield Value (dyn/cm <sup>2</sup> )	800 – 1,400
Turbidity (NTU)***	10 – 20

Stability: Passed 6 weeks (ongoing) at RT, 45, and 55 45°C .  
Passed 5 freeze/thaw cycles

\*\* Brookfield RVT @ 20 rpm, 25°C, #6 spindle, measured after 24 hours  
\*\*\* HF Scientific, Inc. Micro 100 Turbidimeter

### Supplier References:

- Lubrizon Advanced Materials, Inc.  
(Noveon® Consumer Specialties) (3, 14)
- Zschimmer & Schwarz (4)
- Evonik (6)
- BASF (8)
- Protameen (10)
- Clariant (11)
- Concentrated Aloe Corporation (12)
- Nalco (13)
- Essential Compositions (15)
- Croda (16)

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For more information visit [www.personalcare.noveon.com](http://www.personalcare.noveon.com) or contact your nearest Lubrizon Advanced Materials location.

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## Procedure:

### PART A

1. Add Dye solution to Deionized Water.
2. Sprinkle **Carbopol®\* Ultrez 20 Polymer** on the water surface. After the polymer has thoroughly wetted, mix for at least 10 minutes using slow agitation.
3. Add Sodium Laureth Sulfate with gentle mixing. Mix until uniform.
4. Pre-neutralize with Sodium Hydroxide (18%) to pH 5.0. Mix until uniform.

### PART B

5. Slowly add Cocamidopropyl Betaine to main batch.
6. Neutralize batch with Sodium Hydroxide (18%) to pH 6.0. Mix until uniform.

### PART C

7. In a separate vessel, dissolve Disodium EDTA in Deionized Water, when dissolved add **PART C** to main batch.

### PART D

8. Add ingredients 10 – 14 in order with mixing to the main batch, mix well after each addition.

### PART E

9. In a separate vessel, premix Polysorbate 20 and Fragrance.
10. Add the fragrance premix to the main batch. Mix until uniform.