



Clear Conditioning Shampoo

DOW KATHON™ CG/ICP II

- > Lowest dose
- > Broader spectrum of activity
- > Supplied as aqueous solutions readily incorporated into household and industrial formulations
- > Good compatibility with surfactants and emulsifiers, across all ionic compositions
- > Effective over a broad pH range
- > No color or odor imparted to products
- > Safe at recommended use levels

DOW CORNING® 8500 CONDITIONING POLYMER

- > Can be used for clear and opaque products
- > Superior conditioning and smooth feel with strong wet and dry detangling
- > Cold and hot process possible

MIWON MICONIUM PQ 10 J400

- > Water-soluble film forming material with low hydration time
- > Can be used for clear and opaque formulations
- > High conditioning effect to protect and strengthen damaged hair

Ingredients

| Phase A | WT % | INCI | Supplier |
|--|-------|---|--------------|
| DI Water | 45.28 | | Univar |
| Miwon Miconium PQ J400 | 0.30 | Polyquaternium 10 | Miwon |
| Versene™ 100 | 0.05 | Tetrasodium EDTA | Dow Chemical |
| Phase B | | | |
| Steol® CS 230 | 35.00 | Sodium Laureth Sulfate | Stepan |
| Amphosol® CG | 12.00 | Cocamidopropyl Betaine | Stepan |
| Laureth 4 | 4.00 | | |
| Glycerin | 0.50 | | P&G |
| Dow Corning® 8500 Conditioning Polymer | 0.50 | Bis (C13-15 Alkoxy) PG Amodimethicone | Dow Corning |
| Phase C | | | |
| Kathon™ CG/ICP | 0.07 | Methylchloroisothiazolinone & Methylisothiazolinone | Dow Chemical |
| Phase D | | | |
| Green Apple W/S 12885-197 | 0.30 | Fragrance | AFI |
| Phase E | | | |
| Citric Acid | 1.00 | | Univar |
| Sodium Chloride | 1.00 | | Univar |

Procedure

1. Mix ingredients from Phase A using a lightning mixer at 200 rpm.
2. Heat Phase A to 40°C.
3. Add Phase B and mix well until clear.
4. Add Phase C and mix well.
5. Add Phase D and mix well.
6. Adjust pH by using Citric Acid and adjust the viscosity by using Sodium Chloride.



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