



## Clearco Cyclo-1400 Cosmetic Grade Silicone

INCI Name: Cyclomethicone and Dimethiconol (ultra-high viscosity Dimethiconol in blend of D4/D5)



Clearco 1400 is especially effective in hair conditioners to prevent split ends.

### Features

- Soft velvet feel
- Excellent film forming
- Long lasting
- Excellent conditioning
- Volatility
- Cyclomethicones evaporate readily without a residue or cooling sensation
- Conditions hair – especially split ends
- High viscosity Dimethiconol
- Detackifies greasy formulations
- Provides water-repellent film in sunscreens, emollients & moisturizers

### How to use

Clearco Cyclo-1400 improves the substantivity of other actives. It is effective in skin care products as a water repellent, durable film. These actives may include sunscreens, emollients, and moisturizers.

**Formulating tips:** **For emulsion products,** Cyclo-1400 can be incorporated directly into the oil phase of the formulation. If temperature is above 60°C, 1400 should be added slowly after the formulation of the emulsion.

**For non-emulsion products,** it is advisable to add the cosmetic ingredients to the silicone and not vice-versa as often high molecular weight dimethiconol is insoluble wth the cosmetic ingredients

Clearco Cyclo-1400 is a blend of cyclomethicone and dimethiconol. It consists of a 13% solution of an ultra-high viscosity dimethiconol in a blend of cyclotetrasiloxane and cyclopentasiloxane (D4 & D5). The fluid blend provides soft feel, spreadability and substantivity. Cyclomethicone evaporates readily without a residue or cooling sensation.

It can be readily emulsified or combined with volatile silicone, mineral oil and cosmetic esters to provide a delivery vehicle for active ingredients such as sun screens, skin care products, hair conditioners, facial make-up. It is particularly useful as a hair conditioner in preventing split ends

### Properties

Chemical Name	Silicone Fluid
Formula	Dimethicone in blend of Cyclomethicones
Appearance	Clear-viscous liquid
Specific gravity @25°C	0.96
Viscosity at 25 at 25°C	4,000 – 7,000 cP
Freezing point	-18°C
Refractive index	1.39 to 1.40
Non-volatile content	15%
Flash Point	> 50°C

### CAS Information

Decamethylcyclopentasiloxane (D5) 541-02-6.... 40 to 70% by weight  
Octamethylcyclotetrasiloxane (D4) 556-67-2..... 30 to 60% by weight  
Dimethyl siloxane, hydroxy-terminated 70131-67-8...13% by weight

### Packaging

5-gallon pail..... (38 lbs / 17kg)  
55-gallon drums.... (425 lbs / 193 kg per drum)

**For More Information or To Request a Sample Contact:**

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