

Lotioncrafter

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Lotioncrafter LC995 Cyclomethicone

INCI: Cyclopentasiloxane

DESCRIPTION

Lotioncrafter LC995 is a volatile polydimethylcyclosiloxane composed primarily of cyclopentasiloxane (D5). Cyclomethicones are cyclic (circular) silicones of low molecular weight that evaporate quickly. Their volatility, excellent spreading and lubrication make them ideal carriers for other ingredients and excellent light conditioners for hair and skin.

BENEFITS

- Colorless and odorless and non-stinging
- Non-sticky applications
- Improves water repellency
- Adds silky softness and shine to hair formulations
- Improves spreadability and provides lubricity to hair formulations
- Volatility in end use applications

APPLICATIONS

Hair Care: Conditioners, Serums, Activators, Hair Sprays and Relaxers
Skin Care: Lotions, Creams, Gels, Antiperspirants, Bath Oils and Sunscreens
Cosmetics: Stick and Color Products, Nail Polishes

TYPICAL PROPERTIES

Color	Clear Liquid
Odor	None
Solubility in Water	Not Soluble
Refractive Index	1.396 @ 25°C (77°F)
Viscosity	4.0 cps @ 25°C (77°F)
Specific Gravity	0.956 @ 25°C (77°F)
Flash Point (closed cup)	77°C (171°F)

USABLE LIFE AND STORAGE

Store below 25°C (77°F) in a dry place away from all sources of ignition. Store in tightly closed containers. Avoid direct or prolonged contact with skin and eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke in the work area. Care should be taken when handling volatile fluids at temperatures 10°C (50°F) below the quoted flash point. When properly stored, this product has a usable life of 30 months from the date of production.

FORMULATING WITH CYCLOMETHICONE

Lotioncrafter 995 fluid may be used alone or combined with other cosmetic fluids to create a dynamic base for a variety of cosmetic formulations. Unlike other volatile carriers used in the cosmetic industry (ethyl alcohol, for example), silicone oils will not cool the skin as they evaporate, due to their especially low heat of evaporation. Cyclomethicone has good solubility in most anhydrous alcohols and in many cosmetic solvents and oils. We have found that cyclomethicone is not miscible (capable of being mixed without phase separation) with all fragrance oils. Because fragrance oils are proprietary blends, it is impossible to know what ingredient or ingredients are preventing them from mixing completely. Therefore, when making room sprays consisting of just cyclomethicone and fragrance, we recommend you combine a teaspoon or so of cyclomethicone with a few drops of your fragrance oil of choice to make sure they play well together before making large batches. If they do not mix, you can still use the fragrance oil, just mix in a separate vessel, let the fragrance oil settle to the bottom (which may take a few hours) and decant the scented cyclomethicone into your bottles.

Due to its combustibility, cyclomethicone should be added to formulations when the temperature of the formula is 127°F or lower.

Compatibility at 25°C (77°F) or above I= Incompatible C= Compatible all ratios

Type of material		Type of material	
Water	I	Myristyl Myristate	C
Ethanol 200 proof	I	Stearic Acid	C
Glycerin	I	Mineral Oil	C
Petrolatum	C	Almond Oil	C
Castor Oil	I	Jobba Oil	C
Soybean Oil	C	Sunflower Oil	C
Isopropyl Myristate	C	Isopropyl Palmitate	C
C12-15 Alkyl Benzoate	C	Caprylic/capric Triglycerides	C
Dimethicone, 350 cs	C	Phenyl Trimethicone	C
Stearyl Dimethicone	C	Cetyl Dimethicone	C

Compatibility at 80°C (176°F) I= Incompatible C= Compatible all ratios

Type of material		Type of material	
Beeswax*	C	Stearyl Alcohol*	C
Paraffin wax*	C		

***Care has to be taken as silicone fluid is above its flash point**

Suggested Usage Rates

Creams and Lotions	1% - 5%	Antiperspirant Sticks	35% - 55%
Sunscreen Lotions	5% - 18%	Cosmetic Sticks (various)	35% - 55%
Dry Oil Perfume Sprays	15% - 85%	Hair Sprays	Up to 99%

LIMITATIONS

This product is neither tested nor represented suitable for medical or pharmaceutical uses.

LIMITED WARRANTY – PLEASE READ CAREFULLY

The information contained herein is offered in good faith based on Lotioncrafter's research and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information shall not be used in substitution for customers' tests to insure that Lotioncrafter's products are fully satisfactory for your specific applications. Our warranty is that the product will meet its current sales specifications. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.