



### PSF-0.65cSt Hexamethyldisiloxane Fluid

**INCI Name: Hexamethyldisiloxane (CAS#107-46-0) ...fastest evaporation and highest spreadability**



PSF-0.65cSt Hexamethyldisiloxane fluid used as a base fluid in a variety of cosmetic products.

**PSF-0.65cSt** is a Hexamethyldisiloxane fluid (CAS#107-46-0). The fluid is clear, colorless and essentially odorless with a viscosity of 0.65cSt (thinner than water). Of all silicone fluids, PSF-0.65cSt possesses the fastest evaporation rate, the lowest viscosity, and the lowest surface tension.

**PSF-0.65cSt Hexamethyldisiloxane** is used as a base fluid in a wide range of personal care products that require fast evaporation and high spreadability. When blended with Dimethicone fluids, PSF-0.65cSt can adjust the residence time of the silicone on the skin. Unlike other volatile fluids, Hexamethyldisiloxane Fluid does not cool the skin as it evaporates.

PSF-0.65cSt is used as a carrying agent and diluent in the following: skin cream lotions, bath oils, suntan lotions, nail polishes, antiperspirants, deodorants, hair sprays and other beauty and hair care products.

**Features/Benefits:** VOC Exempt, 100% volatility, Fastest evaporation rate of silicone fluids, cosmetic grade, lowest surface tension, highest compressibility, high spreadability, excellent lubrication.

#### Specifications

INCI Name	Hexamethyldisiloxane
Chemical Family	Organosilane
Chemical name	Polydimethylsiloxane
Synonym	HMDS, HMDO, MM
Appearance	Clear Liquid – Odorless & Tasteless
Flammability	HMIS 4
Minimum Order	1 gallon (2.5kg)

#### CAS Information

Hexamethyldisiloxane > 95%...CAS # 107-46-0

#### Features

- Excellent base fluid for cosmetic formulations
- Lowest viscosity of all silicone fluids ...lower than water
- Fastest evaporation of all silicone fluids
- Clear, colorless & essentially odorless fluid
- Excellent Lubrication
- Lowest surface tension...Highest Spreadability
- Low Heat of Vaporization
- Excellent make-up remover
- Low pour point (-68°C)
- Hydrophobic – water repellent
- Miscible with a wide range of cosmetic oils
- Exempt from federal VOC regulations including California CARB and South Coast Air Quality

#### Typical Product Data

Viscosity	Specific Gravity	Viscosity-temp coefficient	Flash Point	Pour Point	Refractive Index	Thermal Expansion cc/cc °C	Thermal conductivity g/ca/cm/sec °C	Surface Tension	Dielectric Constant	Dielectric Strength volts/mil
0.65cSt	0.761	0.31	-1°C	-68°C	1.3750	0.00134	0.00024	15.9	2.20	300

#### Product Data (cont'd)

Boiling Point	Vapor density	Vapor Pressure @ 25C	Evaporation Rate Butyl acetate = 1	Molecular weight
100°C	>1	35mmHg	>1	162

#### Packaging

1-gallon.....	2.5kg
5-gallon pail.....	14kg.
55-gallon drum.....	150kg
F.O.B. Phila, PA 19135	

#### Heat of Vaporization

Fluid	Heat of Vaporization 25°C kJ/kg
Cyclo-2244 (d4)	172
Cyclo-2245 (d5)	157
Cyclo-2345 (d5/d6)	155
Water	2,257
Ethanol	840
PSF- 0.65cSt	192

#### For More Information, Contact:

##### Clearco Products Co., Inc.

3430 G. Progress Drive

Bensalem, PA 19020

Tel: 215 639-2640

Fax: 215 639-2919

Email: [info@clearcoproducts.com](mailto:info@clearcoproducts.com)

Web: [www.clearcoproducts.com](http://www.clearcoproducts.com)