



PEG-12 Dimethicone Fluid

Polyether Copolymer CAS No: 68937-54-2 (>=80% to < 90%), Polyethylene Glycol CAS No: 25322-68-3 (>=5% to < 10%)



PEG-12 Dimethicone is widely used as an inactive ingredient in alcohol-based hand sanitizers to form a dense, stable foam

PEG-12 Dimethicone is a silicone glycol copolymer soluble in water, alcohol, and hydro-alcoholic systems. It acts as a surface tension depressant, wetting agent, emulsifier and foam builder to create and sustain foam in a high alcohol-content hand sanitizer formulations.

PEG-12 Dimethicone is also used in a wide variety of cosmetic and personal care products, including, hair sprays, shampoos, skin care, lotions, perfumes and shaving soaps to create a stable foam.

In conditioner and shampoo formulations, PEG-12 Dimethicone imparts a silky, soft feel to the hair without build up even after repeated wash cycles. Further, PEG-12 Dimethicone provides conditioning, emolliency and detackification in both body and hair shower products.

FEATURES:

- Forms a dense/stable foam in hand sanitizer formulations
- Low usage levels required to attain a stable foam
- Water & alcohol compatible
- Surface tension depressant
- Imparts a soft silky feel in hair care formulations

Compatibility with other cosmetic ingredients

Item	Value
Water	Compatible
Ethanol (70%)	Compatible
Stearyl alcohol	Compatible
Beeswax	Incompatible
Glycerol	Incompatible
IPM	Compatible
Lanolin	Incompatible
Mineral Oil	Incompatible
Paraffin wax	Incompatible
Stearic acid	Compatible
Dimethicone, 350cst	Incompatible

Incompatible = completely or partially immiscible

Typical Product Data

Item	Value
Appearance	Clear to hazy liquid, light amber color
Viscosity @ 25°C	260cSt
Specific Gravity	1.07
Cloud Point	95°C to 100°C
Color (Gardner scale)	0 to 4

CAS Information:

Component	CAS No.	Concentration
Silicone Polyether Copolymer	68937-54-2	>=80% to < 90%
Polyethylene Glycol	25322-68-3	>=5% to <10%

Typical Usage

Product	Desired effect	Usage level%
Hair spray	Luster/detack	0.1 to 1.0
Shampoo	Manageability/feel	1.0 to 5.0
Pre-shave lotion	Emolliency	1.0 to 3.0
Shaving cream	Emolliency, stability	0.2 to 2.0
Skin lotions	Emolliency, lubricity	0.1 to 2.0
Perfumes	Wetting/feel	0.1 to 0.5

Packaging

5-gallon pail (18.9L).....	20kg net wt.
55-gallon drum.....	200kg net wt.

F.O.B. Phila, PA U.S.A.

Storage:

Product should be stored at or below 25°C/77°F in unopened containers. When stored at temperatures below 11°C/52°F, PEG-12 will become hazy and solidify as a soft wax. This effect is common to silicone glycol copolymers and can be reversed upon heating. Repeated freeze/thaw cycles have no effect on properties/performance of the fluid.

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