

Dimethicone 500

Specification Sheet

Description: Dimethicone 500 is a 100% active linear silicone polymer with a viscosity of 500 cps. Linear silicones are large high-molecular polymers (polydimethylsiloxanes) and usually are viscous and more oil-like. Clear, slightly viscous liquid, odorless. Insoluble in water, soluble in alcohol, dispersible in oils & fats.

CAS: 9006-65-9

INCI Name: Dimethicone

Benefits:

- Used for its chemical stability in anti-foams, color cosmetics and hair care products
- Takes out the whitening of creams and lotions when rubbed into the skin and gives a non-greasy, dry feel
- Improves wet and dry combing, gives softness and silky gloss in hair care products
- Makes colors more dispersible (solvent)

Use: Typical use level 1-20% (up to 50% possible), add to oil phase of formulas or at the end of formula. Do not heat over 50°C (125°F). For external use only.

Applications: Hair & skin conditioning products as shampoos, conditioners, creams, lotions, but also color cosmetics (e.g. lipsticks, lip balms, makeup). Skin protectant products.

Country of Origin: USA

Raw material source: Dimethyldichlorosilane and water

Manufacture: Dimethicone is made from dimethyldichlorosilane which is produced by powdered silicon (silicon dioxide) and methyl chloride. Dimethyldichlorosilane is then hydrolyzed to give a hydrolysate of polysiloxanes. In a polymerization reaction with water the polysiloxanes are then polymerized to linear silicone polymers with different chain length (dimethicones).

Animal Testing: Not animal tested

GMO: GMO free (does not contain plant-derived components)

Vegan: Does not contain animal-derived components

Important Note: Dimethicone is registered as an OTC skin protectant drug with the FDA (Category I; allowed concentration 1-30%). This means that if you want to sell a finished product containing dimethicone and you make a skin protectant claim (incl. minor cuts, scrapes, burns, chapped skin and lips, poison ivy, poison oak,



10800 231st Way NE
Redmond, WA 98053
Phone: 425-292-9502
makingcosmetics.com



poison sumac, and insect bites), dimethicone must then be listed under 'Active Ingredients' on the label. Also, your facility and your product must be registered with the FDA and you must operate under cGMP guidelines. However, if no skin protectant drug claims are made on the label, dimethicone is not considered an OTC drug and no registration is needed.