

## Dimethicone Satin

### Specification Sheet

**Description:** Mixture of low and high molecular weight linear silicones. Linear silicones are large polymers (polydimethylsiloxanes) and usually are viscous and more oil-like.

**CAS:** 9006-65-9, 63148-62-9

**INCI Name:** Dimethicone

**Composition:** Dimethicone

**Appearance:** Clear liquid, bland odor

**Benefits:**

- Has a different feel than ordinary dimethicones as it provides more cushion, greater slip, with a satiny after-feel
- Takes out tackiness of products and is greatly moisturizing
- Provides luxurious skin feels for creams and lotions

**Use:**

Typical use level 1-5%. Add to oil phase of formulas but do not heat over 50°C/125°F. Can also be mixed into emulsions after the temperature dropped to 50°C/125°F. For external use only.

**Applications:** Creams, lotions, hair care products, shower gels, sun care, makeup, massage treatments.

**Solubility:** Insoluble in water, soluble in fats and oils

**Preservation:** Preservative-free

**Storage:** Store in a closed container at a dry place at room temperature

**Country of Origin:** Canada

**Raw material source:** Dimethyldichlorosilane and water

**Manufacture:** Dimethicone is made from dimethyldichlorosilane which is produced by powdered silicon (silicone dioxide) and methyl chloride. Dimethyldichlorosilane is then hydrolyzed to give a hydrolysate of

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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

**HS Code:** 3208100000

**Regulatory Information:** 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, 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.