

## Dimethicone Fluid

### Specification Sheet

**Description:** Dimethicone Fluid is a 100% active linear silicone polymer with a viscosity of only 10 cps. Usually, linear silicones are large high-molecular polymers (polydimethylsiloxanes) and are viscous and more oil-like, whereas this special dimethicone is a non-viscous form.

**CAS:** 63148-62-9

**INCI Name:** Dimethicone

**Composition:** Dimethicone

**Appearance:** Clear liquid, odorless

**Benefits:**

- Used for its low viscosity in various liquid, low-viscous skin, and hair care products.
- Will take out the whitening of creams and lotions when rubbed into the skin.
- Gives a non-greasy, dry feel.
- Improves wet and dry combing and gives softness and a silky gloss to the hair.
- Makes colors more dispersible (acts as 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. Skin protectant products.

**Solubility:** Insoluble in water, partly soluble in alcohol, dispersible in oils & fats

**Preservation:** Preservative-free

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

**Country of Origin:** USA

**Raw material source:** Dimethyldichlorosilane and water

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**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 mixture of polysiloxanes. In a polymerization reaction with water the polysiloxanes are then polymerized to a linear silicone polymer (dimethicone).

**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.