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## Cyclomethicone

## **Specification Sheet**

Description: 100% active cyclic silicone polymer blend consisting of siloxane D4 (cyclotetrasiloxane) and siloxane D5 (cyclopentasiloxane). Cyclic silicones are low-molecular weight silicones and are not viscous but very fluid and often used as solvents. Linear silicones (e.g. dimethicone) are large high-molecular polymers that are viscous and more oil-like. Clear to slightly hazy liquid, odorless. Very low water solubility (20 micrograms/L), soluble in alcohol, mixable in oils.

CAS: 556-67-2, 541-02-6

INCI Name: Cyclotetrasiloxane, cyclopentasiloxane

Benefits:

- · Rapidly evaporates without cooling the skin. Leaves the skin dry, smooth and silky
- Ideal carrier for makeup, other color cosmetic skin creams, deodorants and stick products without the oily feel
- Provides excellent stability and aesthetics

Use: Typical use level 1-10% (up to 50% possible), add to oil phase of formulas but do not heat over 50°C (125°F). Can also be mixed into emulsions after the temperature drops to 50°C (125°F). For external use only. Applications: Color cosmetics, creams, deodorants, sticks, hair care products.

**Country of Origin: USA** 

Raw material source: Dimethyldichlorosilane and water

Manufacture: Cyclomethicone 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 cyclic polymer (cyclomethicone) consisting of either 4 siloxane units (cyclotetrasiloxane) or 5 siloxane units (cyclopentasiloxane).

**Animal Testing:** Not animal tested

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

Vegan: Does not contain animal-derived components