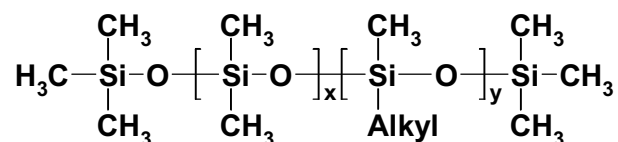


SilCare® Silicone 41M65**SilCare® Silicone 41M80****SilCare® Silicone 41M90****Organosilicone waxes for cosmetic products****Composition**

Alkyl Siloxane Waxes

**CAS-No.:**

SilCare® Silicone 41M65: 67762-83-8

SilCare® Silicone 41M80: 192230-29-8

SilCare® Silicone 41M90:

INCI name

SilCare® Silicone 41M65: Stearyl Dimethicone

SilCare® Silicone 41M80: C₂₄₋₂₈ Alkyl DimethiconeSilCare® Silicone 41M90: C₃₀₋₆₀ Alkyl Dimethicone**Product properties ^{*)}****Appearance [20 °C]**

SilCare® Silicone 41M65: white wax

SilCare® Silicone 41M80, 41M90: white pellets

Chemical / Physical Data

Softening Point (°C):

30-35 (41M65)

min. 60 (41M80)

min. 70 (41M90)

Specific gravity at 25 °C approx. 0.85

Manufacture

SilCare® Silicones 41M65, 80, 90 are produced by hydrosilylation of the corresponding H-silanes. The three grades differ in the chainlength of the pendant alkyl sidechains and thus in melting point.

Solubility/Compatibility

SilCare® Silicones 41M65, 80 and 90 are silicon-hydrocarbon hybrid waxes. They are insoluble in water, but compatible with most organic cosmetic ingredients used in cosmetic products.

^{*)} These characteristics are for guidance only and not to be taken as product specifications. The tolerances are given in the product specification sheet. For further product properties, specifications, safety and ecological data, please refer to the MSDS.

Application

SilCare® Alkyl Siloxanes 41M65, 80 and 90 are pure, colourless, odourless, chemically inert, non-volatile, substantive silicon-hydrocarbon hybrid waxes with 45-80 % alkyl substitution. They are compatible with most organic cosmetic ingredients. Typical sensory benefits associated with silicones are obtained with the members of this family of products.

SilCare® Silicones 41M65-90 can be used in a variety of cosmetic products, like decorative cosmetics (mascara, lipsticks), skincare (emulsions, gels) or antiperspirant applications.

In skincare applications the products will improve gloss, smoothness, detackification, emolliency, occlusion and water repellency.

In emulsions, SilCare® Silicones 41M65-90 can be used to increase the viscosity of both O/W as well as W/O emulsions.

SilCare® Silicones 41M80 and 41M90 can be used at a minimum concentration of 5 % to gel many organic oil phases. Gelling effect can be observed with a variety of cosmetic oils like paraffin oils, ester oils like isopropyl palmitate or C₁₂₋₁₅ alkyl benzoate, triglycerides like caprylic/capric triglycerides, sunflower or soybean oil. It is also possible to gel silicon-hydrocarbon hybrid fluids like Caprylyl Methicone (SilCare® Silicone 41M15). The gelling process is done by melting the alkylsilicone wax in the oil phase above the melting point of the wax and cooling down to ambient temperature without stirring. The shear stability of the gels can be further improved by adding high melting waxes like microcrystalline wax in low amounts.

Depending on the application field, usage concentrations between 0.5-20 %, based on the final formulation are recommended.

Storage instructions

SilCare® Silicones 41M65, 41M80 and 41M90 must be stored in tightly closed original containers. Under these conditions they have good storage stability.

Further information on handling, storage and dispatch is given in the EC safety data sheet.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.