

# Wacker-Belsil® CM 040

Cyclopentasiloxane

## Characteristics

Wacker-Belsil® CM 040 is a clear, colourless fluid of low viscosity, and high volatility. It is non-polar and insoluble in water but miscible with mineral oils, alcohols, esters, and other solvents frequently utilized in personal-care formulations. Due to its low heat of vaporization, Wacker-Belsil® CM 040 evaporates from the skin without producing a cooling or stinging effect.

## Application

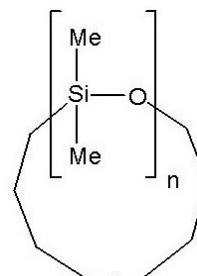
Wacker-Belsil® CM 040 can be utilized as a delivery system in antiperspirant and deodorant formulations as well as cuticle-coat products and colour-cosmetic compositions.

Wacker-Belsil® CM 040 acts as diluent or carrier, helping to uniformly spread actives and pigments over the surface of hair and skin. It provides sufficient play-time in colour-cosmetics applications, thereby improving rub-in properties, reducing stickiness, and imparting lubricity and a smooth skin feel.

In hair-care products, the diluent/carrier Wacker-Belsil® CM 040 supports easy spreading of high-viscosity fluids or gums, improves wet combability, and functions as resin plasticizer in fixative products.

To alter drying times for specific product requirements, Wacker-Belsil® CM 040 may be blended in all proportions with dimethicone fluids, eg, Wacker-Belsil® DM 0.65 and DM 1 Plus.

## Chemical structure



## Storage

WACKER Belsil® CM 040 has a shelf life of at least 12 months when stored between 5°C and 40°C in the tightly closed original container. The 'Best use before end' date of each batch appears on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

## Safety information

Detailed safety information is contained in each material safety data sheet, which can be obtained from our sales offices.

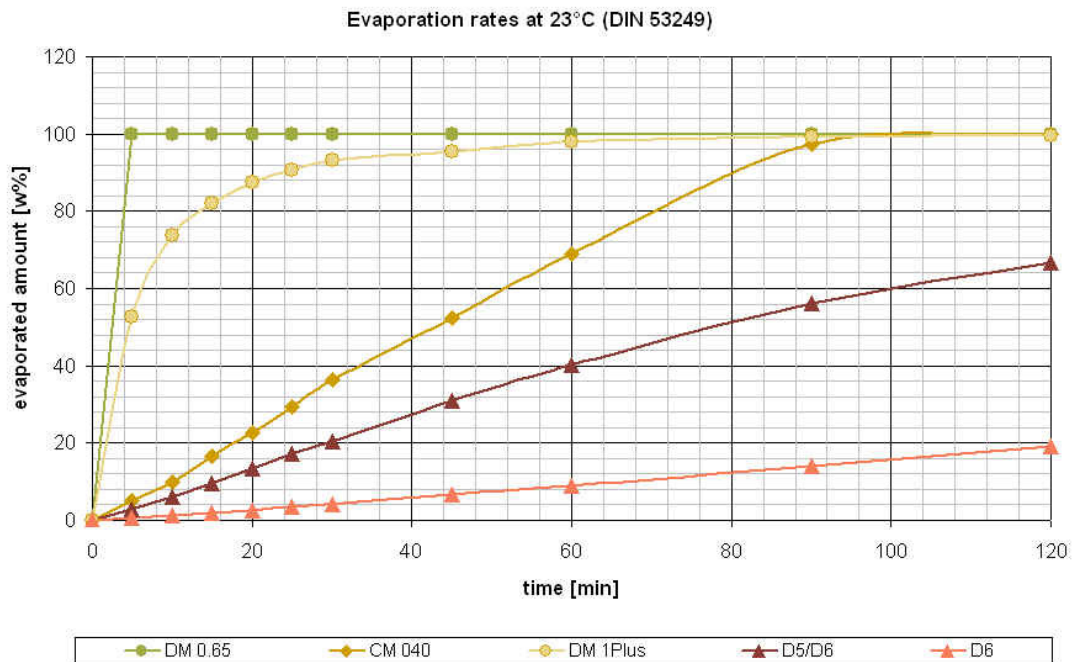
## Product data

Properties		Unit	Wacker-Belsil® CM 040
Appearance			clear, colourless
Viscosity approx.		[mm <sup>2</sup> /s]	4.0
Density at 25°C approx.		[g/cm <sup>3</sup> ]	0.95
Refractive index at 25°C approx.			1.398
Surface tension at 20°C approx.		[mN/m]	17.8
Flash point approx.	DIN 51755	[°C]	77
Ignition point approx.	DIN 51794	[°C]	380
INCI name			Cyclopentasiloxane

These figures are only intended as a guide and should not be used in preparing specifications.

**Additional information**

## Evaporation



## Solubility

Ingredient	Wacker-Belsil® CM 040	Ingredient	Wacker-Belsil® CM 040
<b>Mineral Oil</b>		<b>Emulsifier</b>	
C9-13 Isoparaffin	✓	PEG-75 Lanolin Oil	Δ
Mineral Oil, high-visc.	✓	PEG-7 Glyceryl Cocoate	P
Mineral Oil, low-visc.	✓		
<b>Ester Oil</b>		<b>Alcohols</b>	
Ethyl Acetate	✓	Octyldodecanol	✓
C12-15 Alkyl Benzoate	✓	Oleyl Alcohol	✓
Isopropyl Myristate	✓	Propylene Glycol	Δ
Decyl Oleate	✓	Isopropanol	✓
Oleyl Oleate	✓	Alcohol	✓
Octyl Methoxycinnamate	✓	Glycerin	Δ
Octyl Salicylate	✓	PPG-5-Laureth-5	✓
<b>Triglyceride</b>		<b>Ketones</b>	
Castor Oil	Δ	Benzophenone-3	P
Olive Oil	✓	4-Methylbenzylidene Camphor	Δ
Wheatgerm Oil	✓		
Lanolin Oil	Δ		
<b>Water</b>	Δ		

✓ = soluble (&gt; 10%)

P = partially soluble (1 – 10%)

Δ = insoluble

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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For technical, quality, or product safety questions, please contact: Wacker Chemie AG  
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