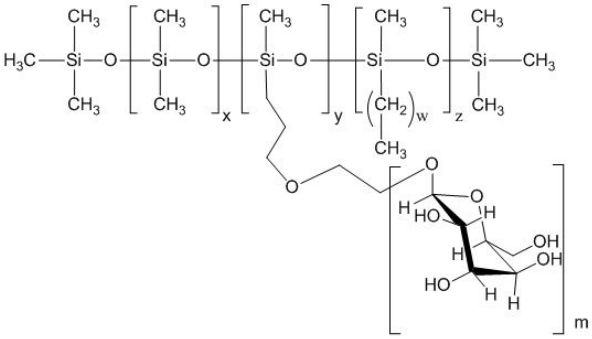
BELSIL® WO 5000

DIMETHICONE, CAPRYLYL DIMETHICONE ETHOXY GLUCOSIDE

Product description

Structural formula:



BELSIL® WO 5000 is supplied as an approximately 30 % active solution in Dimethicone. The silicone polyglucoside contained in this solution is a nonionic surfactant with an HLB of approximately 6 - 7.

Properties

This silicone polymer is synthesized using a renewable, natural, sugar-based component and is therefore in part rapidly biodegradable.

Silicone polyglucosides are surface-active silicone surfactants known for their mildness and gentleness. These materials are typically not employed as primary surfactants as they do not produce a significant amount of foam on their own.

Application

BELSIL® WO 5000 was designed specifically as a water-in-oil or water-in-silicone emulsifier for compositions comprising volatile silicones or non-polar organic fluids as the continuous phase.
Water-in-silicone formulations are noted for imparting a soft and velvety feel to the skin and for their excellent spreading properties.

BELSIL® WO 5000 is an excellent emulsifier for water-in-oil and water-in-silicone systems in skincare, suncare and decorative cosmetics.

Storage

The 'Best use before end' date of each batch is shown 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 notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site http://www.wacker.com.

Product data

Typical general characteristics	Inspection Method	Value
Appearance		clear to translucent, brownish liquid
Viscosity, kinematic at 25 °C	DIN 51562	approx. 100 mm²/s
Density at 20 °C, at 1013 hPa	DIN 51757	0,949 g/cm³
Active content		approx. 30 %
Refractive index at 25 °C		approx. 1,405
Odor		characteristic
HLB value		approx. 6 - 7
INCI name		Dimethicone, Caprylyl Dimethicone Ethoxy Glucoside

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

Additional information

Compatibility BELSIL® WO 5000

blending ratio: **1 : 1**

Liquid Ingredient mixed with BELSIL® WO 5000 1 part	1 part	Liquid Ingredient mixed with BELSIL® WO 5000 1 part	1 part
Mineral oils		**Emulsifiers / ethoxylated oils**	
Mineral oil (high-visc.)	-	Polyglyceryl-2 Sesquiisostearate	-
Mineral oil (low-visc.)	V	Polyglyceryl-2 Dipolyhydroxystearate	-
Ozokerite wax	-	Sorbitan Olivate	-
Microcrystalline wax	-	Sorbitan Trioleate	-
		Ethylhexyl Stearate	V
Esters / Ester oils			
C12-15 alkyl benzoate	-	**Alcohols & water**	
Isopropyl myristate	V	Propylene glycol	-
Isopropyl palmitate	V	Glycerol	-
		Isopropanol	-
		Ethanol	-
UV-Filter		Water	-
Ethylhexyl Methoxycinnamate	-		
Benzophenon-3	V		
Triglycerides		**Silicone fluids**	
Prunus Amygdalus Dulcis Oil	-	Cyclopentasiloxane	V
Olive oil	-	Disiloxane (BELSIL® DM 0.65)	V
Wheatgerm oil	-	Dimethicone (BELSIL® DM 10)	V
Caprylic/Capric Triglycerides	-	Dimethicone (BELSIL® DM 100)	V
Persea Gratissima (Avocado) Oil	-	Trimethylsiloxyphenyl Dimethicone (BELSIL® PDM 20)	V

V = soluble, clear
\- = not miscible

Additional information

Compatibility BELSIL® WO 5000

blending ratio: **9 : 1**

Liquid Ingredient mixed with BELSIL® WO 5000 9 part 1 part		Liquid Ingredient mixed with BELSIL® WO 5000 9 part 1 part	
Mineral oils		**Emulsifiers / ethoxylated oils**	
Mineral oil (high-visc.)	-	Polyglyceryl-2 Sesquiisostearate	-
Mineral oil (low-visc.)	-	Polyglyceryl-2 Dipolyhydroxystearate	-
Ozokerite wax	-	Sorbitan Olivate	-
Microcrystalline wax	-	Sorbitan Trioleate	-
		Ethylhexyl Stearate	-
Esters / Ester oils			
C12-15 alkyl benzoate	-	**Alcohols & water**	
Isopropyl myristate	V	Propylene glycol	-
Isopropyl palmitate	V	Glycerol	-
		Isopropanol	V
		Ethanol	-
UV-Filter		Water	-
Ethylhexyl Methoxycinnamate	-		
Benzophenon-3	-		
Triglycerides		**Silicone fluids**	
Prunus Amygdalus Dulcis Oil	-	Cyclopentasiloxane	V
Olive oil	-	Disiloxane (BELSIL® DM 0.65)	V
Wheatgerm oil	-	Dimethicone (BELSIL® DM 10)	V
Persea Gratissima Oil	-	Dimethicone (BELSIL® DM 100)	V*
Caprylic/Capric Triglycerides	-	Trimethylsiloxyphenyl Dimethicone (BELSIL® PDM 20)	V

V = soluble, clear
V* = miscible, slightly turbid
- = not miscible

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:

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