

SPECIFICA TECNICA

Intended use

O/W emulsifier

Benefits at a glance

- For sprayable emulsions, creams and lotions
- Cold processable emulsions are possible
- Long-lasting skin smoothing perception
- Low usage concentration (1.5 – 3.0%)
- Formulations with a wide range of cosmetic oils
- Easy to handle (liquid and clear down to 0 °C)

INCI (PCPC name)

Bis-PEG/PPG-16/16 PEG/PPG16/16 Dimethicone;
Caprylic/Capric Triglyceride

Chemical and physical properties (not part of specifications)

Form liquid	
HLB value	approx. 10

Properties

- ABIL® Care 85 is a silicone based nonionic emulsifier for oil-in-water emulsions. Due to its specific chemical structure a maximum contribution of silicone character to the skin feel is realized.
- The specific characteristic of ABIL® Care 85 is its strong impact on the after feel of emulsion preparations. ABIL® Care 85 can even overcome the negative influence of other ingredients, for

example the tackiness of glycerin or the dry feel of waxy stabilizers.

- The usage concentration of ABIL® Care 85 is 1.5 – 3.0% depending on the type and amount of co-emulsifier used.
- For cold processed formulations a viscosity enhancing and stabilizing system is necessary. A combination of TEGO® Carbomer and Xanthan Gum is recommended. For optimization of heat and cold stability ABIL® Care 85 should be combined with low amounts of a hydrophilic co-emulsifier, e. g. 0.2% TEGO® SMO 80 V (Polysorbate 80).
- For hot processed creams with waxy consistency-enhancers a co-emulsifier is required for the formation of liquid-crystalline structures in the external water phase.
For example TEGINACID® C (Cetareth-25) at 0.5 – 1.0% can be used. As consistency-enhancer a combination of TEGIN® M (Glyceryl Stearate), TEGO® Alkanol 18 (Stearyl Alcohol) and Stearic Acid is suggested.
- The formulations have a wide heat and cold stability range, typically they are stable from – 15 °C up to +45 °C.
- The remarkable skin feel of ABIL® Care 85 has been proven by a panel test. A commercially available body lotion was compared with a formula containing ABIL® Care 85 as emulsifier. The conditioning properties were comparable to the market product (see Fig. 1). The skin feel of the ABIL® Care 85 lotion is preferred. The preference for the ABIL® Care 85 lotion goes parallel with the preference for skin feel.

I metodi di analisi non indicati sono metodi interni del produttore ottenibili su specifica richiesta

Le informazioni sopra riportate non Vi sollevano dall'obbligo di identificare il prodotto prima dell'impiego. DERMOLIFE non si assume alcuna responsabilità per danni a persone o cose derivanti dall'impiego dei prodotti da noi commercializzati

The analytical methods not listed are internal methods of the manufacturer obtainable upon specific request

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Product specification

Material ABIL CARE 85
Spec.Code K00 STANDARD

Evonik Nutrition & Care GmbH

Personal Care Business Line
Goldschmidtstrasse 100
45127 Essen
Phone: +49 (201) 173-2524
Fax: +49 (201) 173-1828
<http://www.evonik.com/personal-care>
personal-care@evonik.com

Inspection Characteristics	Method	Limits	Units	☒
Refractive index / 25°C	GM_0120_01	1.4230-1.4330		X
Density / 25°C	GM_0110_01	0.980-1.010	g/ml	X
Colour to Gardner	GM_0140_02	<=1		X
Odour	GM_0175_02	OK		C
Viscosity / 25°C	GM_0101_03	1800-3200	mPa·s	X
Acid Value	GM_0010_01	<=0.20	mg KOH/g	X
Ethylenoxide	GM_0616_01	<=1	ppm	C
Dioxane	GM_0616_01	<=5	ppm	C
Odour	OK			

Report on inspection certificate: X = specific/actual value, C = unspecific value/conformity, T = not reported

This product only starting with an E in the batch number is produced in a RSPO certified site.

The raw materials for this product are sourced according to rules set by the RSPO, Supply Chain Mass Balance, Evonik AG RSPO Certification Number : RSPO-V-14-13553. Certificates can only be used from RSPO certified Supply Chain Partners.

This document is computer printed and therefore valid without signature.

All warranty claims in respect of the conformity of our product are subject to our General Terms and Conditions of Sale and Delivery. The data listed above reflects the criteria for our internal quality tests. We do not hereby make any express or implied warranty, whether for specific properties or for fitness for any particular application or purpose. All values are valid for the product when despatched from the works.

The Standard Test Methods can be obtained from specialized publishers. Evonik's test methods are available on request.

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ABIL® Care 85

Product data record

1. General information

1.1 Manufacturer/Supplier

Evonik Nutrition & Care GmbH
Business Line Personal Care
Goldschmidtstrasse 100
D-45127 Essen / Germany
Phone: +49 (201) 173-2524
Fax: +49 (201) 173-1828
personal-care@evonik.com
<http://www.evonik.com/personal-care>

1.2 Product Description

1.2.1 Raw material category O/W Emulsifier

1.2.2 Ingredients according to INCI

Bis-PEG/PPG-16/16 PEG/PPG-16/16 Dimethicone; Caprylic/Capric Triglyceride

1.2.3 Composition

Components	Source	Ratio
Bis-PEG/PPG-16/16 PEG/PPG-16/16 Dimethicone	synthetic	80 - 90 %
Caprylic/Capric Triglyceride	vegetable	10 - 20 %

This composition information serves for information of our customers only.

It is neither relevant for the composition listing according to Regulation (EC) No 1223/2009, nor does it reflect the chemical composition according to the different chemical regulations in the world which is disclosed in the table "information on ingredients/hazardous components" in the relevant parts of the respective (Material) Safety Data Sheets.

1.2.4 Solvents, preservatives and other additives

	CAS No. Reg. No.	EINECS / EC No.	content	Function
Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate	6683-19-8 01-2119491301-46	229-722-6	0.02 %	other additive

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No components which are listed in Annex II of the Regulation (EC) No 1223/2009 and its modifications and updates are added to and are not to be expected in the above mentioned product due to the raw materials used and the production process.

2. Information on production process

General description of production process:

Conversion of allylpolyether with functional polysiloxane

The product is not irradiated.

ABIL® Care 85 is produced in the strictest absence of any animal derived material of any type

Origin of vegetable starting material: palm kernel oil, rapeseed oil

GMO-Status:

The item contains ingredients derived from rapeseed (including oils and other refined ingredients), but these ingredients are sourced from an "Identity Preserved" programme and can be certified NON-GM.

However max 0.9 % cross-contamination is possible. Any protein or DNA is not present.

Consequently the product will be PCR negative when tested.

2.1 By products

		method
Residual solvents	not applicable	
Free amines	not applicable	Chromatography
Nitrosamines	not applicable	
Monochloroacetic acid	not applicable	Chromatography
Dichloroacetic acid	not applicable	Chromatography
1,4-Dioxane	max. 5 ppm	
Decamethylcyclopentasiloxane (D5)	max. 0.1 %	Chromatography
Pesticides	meets the valid regulatory requirements for limits on agricultural pesticides	
Total heavy metals	max. 20 ppm	AAS-ICP
As, Cd, Co, Cr, Hg, Ni, Pb, Sb	Each < 1 ppm	AAS-ICP
Latex	not to be expected in the product due to the raw materials used and the production process	
VOC	< 3 % according to SR (Swiss Right) 814.018	

2.2 CMR (Carcinogenic, Mutagenic or Reprotoxic)

The use in cosmetic products of substances classified as CMR substances, of category 1A or 1B or 2 under Part 3 of Annex VI to Regulation (EC) No 1272/2008 shall be prohibited.

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Further Information:

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:342:0059:0209:en:PDF>

Some of the CMR substances mentioned below and listed in Annex VI to Regulation (EC) No 1272/2008 are used as starting materials or solvents for the production of our cosmetic raw materials and may require reporting under California Proposition 65 or the Safe Cosmetics Act, SB 484.

The presence of these prohibited substances has to be seen as non-intended. It is stemming from impurities of the starting materials or the manufacturing process which is technically unavoidable in good manufacturing practice.

CMR substance	Starting material	max. concentration	method
Ethylene Oxide	yes	1 ppm	
Propylene Oxide	yes	1 ppm	
Octamethylcyclotetrasiloxane (D4)	no	0.1 %	
2-Ethylhexanoic Acid	no		
n-Hexane	no		
Methyl Chloride	no		
Dimethyl Sulphate	no		

2.3 "Allergens" according to the Regulation (EC) No 1223/2009

The presence of substances, the mentioning of which is required under the column 'Other' in Annex III, shall be indicated in the list of ingredients in addition to the terms parfum or aroma.

The cosmetic raw materials and the cosmetic actives supplied by Evonik Personal Care are manufactured without the use of perfumes and fragrances. An analytical proof for the absence in traces of the substances to be mentioned in addition to the terms parfum or aroma is not performed in cosmetic raw materials, which are chemically produced.

None of these substances have been intentionally added to our cosmetic raw materials or are formed during the manufacturing process according to our knowledge of the chemistry.

2.4 Food Ingredients listed in Annex IIIa of Commission Directive 2007/68/EC.

None of these substances have been intentionally added to our cosmetic raw materials or are formed during the manufacturing process according to our knowledge of the chemistry.

3. Microbiological status

Total Viable Count max. 100 cfu/g
Pathogens* absent/g

*Pathogens are: Enterobacteria, Pseudomonas, Enterococci, Candida albicans, Staphylococci

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4. Shelf life / storage conditions

24 months after production (unopened original packaging)

5. Regulatory Status

5.1 Customs tariff number

38249096

5.2 Regulatory status (chemical regulations)

Europe

Components	REACH status	CAS No.	EINECS / EC No.
Bis-PEG/PPG-16/16 PEG/PPG-16/16 Dimethicone	Polymer	68937-55-3	Polymer
Caprylic/Capric Triglyceride	Reg. No. 01-2119492306-35	73398-61-5	277-452-2

Other countries

Country		yes / no	Remark
Bis-PEG/PPG-16/16 PEG/PPG-16/16 Dimethicone			
Australia	AICS:	yes	
China	IECSC:	yes	
Canada	DSL: NDSL:	yes	
Taiwan	TCSI:	yes	
Caprylic/Capric Triglyceride			
Australia	AICS:	yes	
China	IECSC:	yes	
Canada	DSL: NDSL:	yes	
Taiwan	TCSI:	yes	

In the following countries the relevant authorities currently do not require pre-market approval for cosmetic raw materials:

Brazil, Japan, South Korea, Philippines, USA

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5.2.1 Regulatory status (cosmetic regulation)

Country		yes / no	Remark
Bis-PEG/PPG-16/16 PEG/PPG-16/16 Dimethicone			
China	CFDA:	yes	
Japan	JSQI:	yes	JSQI No. 521013, but specifications not controlled
Caprylic/Capric Triglyceride			
China	CFDA:	yes	
Japan	JSQI:	yes	JSQI No. 111164, but specifications not controlled

6. Toxicology and Ecotoxicology

Refer to summary of ecotoxicological and toxicological data

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