

Silicone Oil Polydimethylsiloxane

INTENDED USE

Emollient

BENEFITS AT A GLANCE

- Moisture barrier for skin care or skin protection formulations
- Improves application properties
- Non-sticky
- Good emollient properties
- Elimination of "whitening" effect

INCI (PCPC NAME)

Dimethicone

CHEMICAL AND PHYSICAL PROPERTIES (NOT PART OF SPECIFICATION)

Form	Liquid
Color	Colorless
Solubility	10% at 25 °C
Water	Insoluble
Ethanol	Insoluble
Mineral oil	Dispersible
Isopropyl Myristate	Soluble
Sunflower seed oil	Dispersible
Glycerol	Insoluble
1,2-Propylene Glycol	insoluble

PROPERTIES

The beneficial influence of the ABIL® 350 on the spreadability of cosmetic emulsions is due to its highly hydrophobic character, low interfacial tension and good spreading effect.

It improves the protection of skin care and skin protection preparations against aqueous media.

The defoaming action of ABIL® 350 results also in the reduction of the "whitening" effect which is often found in the application of O/W emulsions.

APPLICATION

ABIL® 350 is suitable for

- O/W skin care creams and lotions
- W/O skin care emulsions
- protective hand creams and lotions
- wipes formulations
- sun protection products
- aerosol shave lathers
- make-up preparations
- shampoos
- toilet soaps
- antiperspirants

PREPARATION

We recommend adding ABIL® 350 into the oil phase.

Further manufacturing conditions correspond to the common principles for the processing of emulsions.

SUGGESTED USAGE CONCENTRATION

0.5 – 5.0% ABIL® 350

PACKAGING

200 kg drum

HAZARDOUS GOODS CLASSIFICATION

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances,
- protective measures for storage and handling
- measures in case of accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

Disclaimer

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments.

The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used. (Status: April, 2008)

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ABIL® 350**Product data record****1. General information****1.1 Manufacturer/Supplier**

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1.2 Product Description

1.2.1 Raw material category liquid lipophilic emollient

1.2.2 Ingredients according to INCI

Dimethicone

1.2.3 Composition

Components	Source	Ratio
Dimethicone	synthetic	100 %

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.	EINECS / EC No.	content	Function
no additives				

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:
 Hydrolisis of chlorsilanes

The product is not irradiated.

ABIL® 350 is produced in the strictest absence of any animal derived material of any type.

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	not applicable	
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.

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	no		
Propylene Oxide	no		
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 perfume 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 perfume 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 II of Regulation (EU) No 1169/2011

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

4. Shelf life / storage conditions

36 months after production (unopened original packaging)

5. Regulatory Status

5.1 Customs tariff number 39100000

5.2 Regulatory status (chemical regulations)

Europe

Components	REACH status	CAS No.	EINECS / EC No.
Dimethicone	Polymer	63148-62-9	Polymer

Other countries

Country		yes / no	Remark
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

5.2.1 Regulatory status (cosmetic regulation)

Country		yes / no	Remark
China	CFDA:	yes	
Japan	JSQI:	yes	JSQI No. 104210, but specifications not controlled

6. Toxicology and Ecotoxicology

Refer to summary of ecotoxicological and toxicological data

Product specification

Material ABIL 350
Spec.Code K01 STANDA02

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Inspection Characteristics	Method	Limits	Units	Z
Appearance	GM_0170_00	OK		X
Refractive index / 25°C	GM_0120_01	1.4030-1.4050		X
Density / 25°C	GM_0110_01	0.950-0.970	g/ml	X
Acid Value	GM_0010_01	<=0.01	mg KOH/g	X
Viscosity / 25°C	GM_0100_01	332-368	mm²/s	X

Appearance colourless clear

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

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