

ABIL® B 8843

Silicone surfactant for hair and skin cleansing products,
shaving products and hair styling products

- improves skin feel of shower gels, shampoo, etc.
- plastifier for styling polymers
- improves the skin feel of liquid foundations
- forms dense creamy foam
- strong decrease of surface tension

Personal Care

INCI Name (CTFA name)

PEG-14 Dimethicone

**Chemical and physical properties
(not part of specifications)**

Form	liquid
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Solubility at 25 °C and 10 % concentration in:

Water	soluble
Ethyl alcohol	soluble
Paraffin oil	dispersible
Isopropyl myristate	insoluble
Sunflower seed oil	dispersible
Glycerol	dispersible
1,2-Propyleneglycol	soluble

**Cloud point 4 % in
water (°C)**

> 85

A slight opalescence of the product doesn't restrict its property.

Properties

ABIL® B 8843 silicone polyether is a non-ionic copolymer produced by linking of long-chain polyether groups with polydimethyl siloxane. In aqueous solutions ABIL® B 8843 behaves like conventional organic non-ionic surfactants: It decreases the surface tension of aqueous solutions, is able to form micelles and show a characteristic cloud point, when heated, because of its inverse solubility behaviour.

The silicone part causes a remarkable decrease of surface tension.

Due to the silicone part ABIL® B 8843 shows excellent properties in cosmetic applications.

Application

- hair styling formulations
- liquid foundations
- shampoos
- shower and bath preparations
- shaving foam

ABIL® B 8843 is compatible with all common styling polymers. It plastifies the polymer film, providing „flexible hold“, e. g. of hair sprays.

In liquid foundations ABIL® B 8843 provides a velvety-silky after feel.

ABIL® B 8843 is a hydrophilic surfactant with good foaming properties.

Formulations as e. g. shampoo, shower gel or shaving cream get a tight, creamy foam which conveys a pleasant skin feel during application, when ABIL® B 8843 is applied.

Recommended usage concentration

0.50 – 3.0 % ABIL® B 8843

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 accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

Guide Line Formulations

Liquid Foundation for Mixed to Oily Skin OWMU 1059	
Phase A	
Water	61.80 %
Xanthan Gum	0.25 %
Butylene Glycol	7.00 %
Phase B	
Titanium Dioxide (C.I. 77891)	8.30 %
Iron Oxides	1.90 %
Phase C	
TEGIN® Pellets (Glyceryl Stearate SE)	9.00 %
TEGO® Alkanol 16 (Cetyl Alcohol)	1.25 %
TEGOSOFT® CT (Caprylic/Capric Glycerides)	1.50 %
TEGOSOFT® M (Isopropyl Myristate)	4.50 %
TEGOSOFT® DO (Decyl Oleate)	2.00 %
Phenyl Trimethicone	2.00 %
ABIL® B 8843 (PEG-14 Dimethicone)	0.50 %
Peraserv, Parfum	q.s.
Preparation:	
1. Heat water to 72 – 75 °C. add and dissolve ingredients of phase A.	
2. Add pigments of phase B under stirring and homogenize for 30 minutes.	
3. Add phase C (75 °C) under stirring and homogenize for 20 minutes.	
4. Cool to 30 °C under stirring.	

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