

ABIL® B 8851

Silicone surfactant for hair and skin cleansing products and shaving products

- strong decrease of surface tension
- good conditioning properties
- improves the lubricity of shaving products

Personal Care

INCI Name (CTFA name)

PEG/PPG-14/4 Dimethicone

Chem	ical and	physical	properties	
(not part of specifications)				

Form	liquid
------	--------

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) 61 - 67

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

Properties

ABIL® B 8851 silicone polyether is a non-ionic copolymer produced by linking of long-chain polyether groups with polydimethyl siloxane. In aqueous solutions ABIL® B 8851 behaves like conventional organic non-ionic surfactants: It

decreases the surface tension of aqueous solutions, is able to form micelles and shows 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 8851 shows excellent properties in cosmetic applications.

Application

Hair care products:

 Provides hair with improved wet combability and pleasant after-feel.

Shaving products:

 Used in shaving foam or soap formulations the positive effect of a better slip can be noticed. The skin gets an aqueous film with increased lubrication properties.

Packaging

210 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 Syndet UM 21/230	
Sodium Laureth Sulfate (28 %)	30.0 %
Perfume	0.5 %
ABIL® B 8851	0.5 %
Water	58.0 %
TEGO° Betain F 50 (Cocamidopropyl Betaine)	6.0 %
ANTIL® 171 (PEG-18 Glyceryl Oleate/Cocoate)	5.0 %
NaCl, Preservatives	q. s.
Preparation: Mix the ingredients in the given order.	

Hair Treatment UM 6/1 B	
Phase A	
TEGINACID® C	1.00 %
(Ceteareth-20)	
TEGIN® M	2.00 %
(Glyceryl Stearate)	
TEGO® Alkanol 16	3.00 %
(Cetyl Alcohol)	
ABIL® Wax 2440	0.35 %
(Behenoxy Dimethicone)	
Phase B	
ABIL® B 8851	0.40 %
ABIL® Quat 3272	0.50 %
(Quaternium-80)	
Glycerin	2.00 %
Water	90.75 %
Perfume, Preservatives	q.s.

Preparation:

Heat phases A and B up to 70 °C. Stir B into A and cool down while stirring. Homogenize at 65 °C, add the perfume at 45 °C.

Stir until the emulsion is cool (30 °C).

Shaving Foam UK 108/3	
Phase A	
Water	50.0 %
Monoethanolamine ad pH ≈ 8,6	1.3 %
Coconut Fatty Acid	1.4 %
Myristic Acid	3.5 %
Phase B	
TEGOSOFT® LSE 65 K	2.0 %
(Sucrose Cocoate)	
Phase C	
TEGO® Betain 810	7.6 %
(Capryl/Capramidopropyl Betaine)	
Glycerol	5.0 %
ABIL® B 8851	1.7 %
Perfume	0.3 %
Water	27.2 %
Preservatives	q.s.

Preparation:

- A The Fatty Acids are saponificated at 70 °C.
- B is added.
- C is added after cooling down in the given

This formulation can be applied by using an airspray foamer or a fingerpump foamer (e. g. of Airspray International/Netherlands).

C 05/01

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)

Evonik Industries AG Goldschmidtstraße 100 45127 Essen, Germany P.O. BOX 45116 Essen PHONE +49 201 173-2854 FAX +49 201 173-1828 personal-care@evonik.com www.evonik.com/personal-care

