

Technical Information

ABIL® B 9950

Conditioning agent for damaged hair

Intended use

Conditioning agent for shampoos

Benefits at a glance

- Improves wash fastness: reduction of the fading out of artificial dyes (demipermanent/permanent) caused by shampoos
- Improves synergistically the dry comb of Polyquaternium-10
- Improves synergistically the volume and the antistatic properties of cationic guar

INCI (PCPC name)

Dimethicone Propyl PG-Betaine

Chemical and Physical Properties (not part of specifications)

Physical properties	
Form	Liquid
Solubility at 25 °C and 10% concentration:	
Water	Dispersible
Cosmetic alcohol	Soluble
1,2-Propylene glycol	Soluble

Properties

The conditioning effect of ABIL® B 9950 improves the combability and feel of hair.

In conditioning shampoos ABIL® B 9950 in combination with cationic guar reduces the fading out of artificial dyes caused by shampooing (improved wash fastness). Furthermore combability, volume and antistatic effects are improved in combinations with cationic guar resp. Polyquaternium-10. The hair becomes silky, shiny and manageable.

In skin cleansing products, the interaction with skin proteins provides a refatting effect that imparts a smooth and supple feel to the cleansed skin.

Suggested usage concentration

0.5 – 5.0% ABIL® B 9950

Application

- shampoos
- rinses, conditioner
- shower gels
- liquid hand soaps

The most important areas of application are conditioning shampoos, intensive treatments and hair rinses, shower gels and liquid hand soaps.

It is recommended to use ABIL® B 9950 in combination with quaternized, polymeric compounds (e. g. guar quat, polyquaternium-7 or polyquaternium-10). The activity of ABIL® B 9950 and the polyquat will be increased synergistically.

Preparation hint

If amphoteric surfactants (like Cocamidopropyl Betaine or Amphoacetates) are used, we recommend to solubilize the ABIL® B 9950 in the amphoteric surfactant and add the remaining ingredients.

Storage

Store at temperatures below 30 °C.

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport of chemicals
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicological and ecotoxicological effects

is given in our safety data sheets.

Guideline formulations

Leave-in Conditioning Spray (SG 1009/3)

TEGO® Alkanol L 4 (Laureth-4)	0.50%
TAGAT® CH 40 (PEG-40 Hydrogenated Castor Oil)	0.50%
Perfume	0.20%
ABIL® Quat 3272 (Quaternium-80)	0.40%
ABIL® B 9950	0.60 %
VARISOFT® 300 (Cetrimonium Chloride)	0.80%
Water	ad 100.00%
TEGO® Cosmo C 100 (Creatine)	0.50%
Ethanol	15.00%
PVP/VA Copolymer (50%)	4.00%
NaOH, 10%	1.20%

Preparation

Dissolve the TEGO® Cosmo C 100 in the water.
Blend the other ingredients in the given order.

Remarks

With antistatic properties, provides hair repair/
protection, slight fixing effect

Conditioning Shampoo for dyed hair (SG 909/3.2)

TEGO® Betain F 50 (Cocamidopropyl Betaine)	8.10%
ABIL® B 9950	1.70%
Perfume	0.25%
Water	ad 100.00%
Hydroxypropyl Guar Hydroxypropyltrimonium Chloride (Jaguar C-162, Solvay Novicare)	0.30%
Sodium Laureth Sulfate (28%)	32.00%
ANTIL® 200 (PEG-200 Hydrogenated Glyceryl Palmate; PEG-7 Glyceryl Cocoate)	1.60%
Preservatives	q.s.

Preparation

Dissolve Hydroxypropyl Guar Hydroxypropyl-trimonium Chloride in water and let it swell.
Adjust the pH value of the solution to approx. 5
for better solubility.

Solubilize ABIL® B 9950 in TEGO® Betain F 50
carefully. Finally add the other ingredients in the
given order.

Shampoo for fine hair

TEGO® Betain F 50 (Cocamidopropyl Betaine)	8.10%
ABIL® B 9950	1.70%
VARISOFT® PATC (Palmitamidopropyl-trimonium Chloride)	1.00%
Water	ad 100.00%
Hydroxypropyl Guar Hydroxypropyltrimonium Chloride (Jaguar C-162, Solvay Novacare)	0.30%
Sodium Laureth Sulfate, 28%	32.00%
REWODERM® LI S 80 (PEG-200 Hydrogenated Glyceryl Palmate; PEG-7 Glyceryl Cocoate)	1.80%
Preservative, Perfume	q.s.

Processing

Dissolve the Jaguar C-162 in the water and let it swell. For a better solubility, adjust the pH-value to 5.0. Solve the listed ingredients in the given order in the Betaine carefully, then add the water/ Jaguar C-162 and the Sodium Laureth Sulfate.

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