

## ABIL<sup>®</sup> Quat 3272

Cationic silicone for hair care and skin cleansing preparations

- highly substantive to skin and hair proteins because of its cationic charge
- improvement of combability, feel and gloss of hair
- antistatic effect
- improvement of skin feel

Personal Care

## INCI name (CTFA name)

Quaternium-80

Chemical and physical properties (not part of specifications)	ABIL® Quat 3272
Form	liquid, clear
Type	cationic
Appearance	pale

### Properties

ABIL® Quat 3272 is used in conditioning shampoos and hair rinses. It is substantive to the hair keratin, and improves combability of wet and dry hair, electrostatic charge is reduced and the hair becomes silky, shiny and manageable.

ABIL® Quat 3272 is compatible with anionic surfactants.

### Application

ABIL® Quat 3272 is preferred for use in shampoos, shower and bath preparations and liquid soaps.

In skin cleansing preparations, the interaction of ABIL® Quat 3272 with skin proteins provides a refatting effect that imparts a smooth and supple feel to cleansed skin.

### Preparation

of shampoos:

ABIL® Quat 3272 is mixed with anionic surfactants, water insoluble components and solubilizers.

The mixture is diluted with water. Then TEGO® Betain, watersoluble ingredients, thickeners and TEGO® Pearl are added.

### Recommended usage concentration

0.2 – 2.0 % in shampoos and skin cleansing preparations  
0.5 – 4.0 % in hair rinses

### 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.

## Guide Line Formulations

<b>Conditioning Shampoo for coarse damaged hair - SG 909/15.2</b>	
Sodium Laureth Sulfate, 28 %	32.0 %
VARISOFT® PATC (Palmitamidopropyltrimonium Chloride)	1.5 %
ANTIL® 200 (PEG-200 Hydrogenated Glyceryl Palmate; PEG-7 Glyceryl Cocoate)	2.1 %
ABIL® Quat 3272	2.0 %
Perfume	0.25 %
Water	53.85 %
Polyquaternium-10 (Polymer JR 400, Amerchol)	0.3 %
TEGO® Betain F 50 (Cocamidopropyl Betaine)	8.0 %
Preservative	q.s.
<b>Preparation:</b> Dissolve the Polyquaternium-10 in the water and let it swell. Dissolve the listed ingredients carefully in Sodium Laureth Sulfate. Then add PQ-10/water und finally TEGO® Betain F 50.	

<b>Clear leave-in conditioning foam - JB 211/5</b>	
ABIL® Quat 3272	0.6 %
TAGAT® CH 40 (PEG-40 Hydrogenated Castor Oil)	0.5 %
Perfume	0.3 %
TEGO® Betain 810 (Capryl/Capramidopropyl Betaine)	2.0 %
Water	94.0 %
TEGO® Cosmo C 100 (Creatine)	0.5 %
TEGOCEL® HPM 50 (Hydroxypropyl Methylcellulose)	0.3 %
VARISOFT® 300 (Cetrimonium Chloride)	1.3 %
LACTIL® (Sodium Lactate; Sodium PCA; Glycine; Fructose; Urea; Niacinamide; Inositol; Sodium Benzoate; Lactic Acid)	0.5 %
Perfume, Citric Acid	q.s.
<b>Preparation:</b> Dissolve the TEGO Cosmo C 100 in the water, then the cellulose and let it swell with agitation. Combine the ingredients in the given order. Adjust the pH value with Citric Acid to ~ 5.0.	

J 09/12

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