

VARISOFT® 442 100 P

Conditioning agent for use in hair rinse formulations

- excellent conditioning properties
- easy to handle product
- water dispersible for easy processing

Personal Care

INCI Name (CTFA Name)

Quaternium-18

Chemical and physical properties (not part of specifications)

Appearance (20 °C)	powder
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Properties

VARISOFT® 442 100P is dialkyl quaternary. As an excellent cationic emulsifier (HLB 9 - 10), it is recommended for hair care formulations.

This high active, powdered quaternary is readily dispersible in water, propylene glycol, mineral oil and certain esters. VARISOFT® 442 100P is soluble in iso-propanol. It is compatible with non-ionic surfactants. Dispersions of 4 to 7 % are readily prepared with 25 % dispersions giving a gel which can be used as a concentrate.

This quaternary provides an excellent softness and substantivity without significant build-up.

Application

VARISOFT® 442 100P is used in hair rinses and to improve dry and wet combing and as the co-emulsifier.

Preparation

VARISOFT® 442 100P should be dispersed at approximately 50 °C.

Suggested usage concentration

2 - 10 % VARISOFT® 442 100P

Packaging

225 kg pallet (9 x 25 kg)

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

Conditioning hair rinse for normal hair SG 977/2.1	
Phase A	
TEGINACID® C (Cetareth-25)	0.5 %
TEGO® Alkanol 1618 (Cetearyl Alcohol)	2.5 %
ABIL® Soft AF 100 (Methoxy PEG/PPG-7/3 Aminopropyl Dimethicone)	1.0 %
VARISOFT® 442 100 P	1.1 %
Phase B	
Propylene Glycol	1.0 %
Water	93.9 %
Phase Z	
Preservative, Parfum	q.s.
Preparation: Heat phases A and B separately up to approx. 65 °C. Combine both phases and homogenize. Cool down while stirring. Add perfume below 45°C. Adjust the pH value to approx. 4.5-5.	

Conditioning hair rinse for damaged hair SG 977/1	
Phase A	
TEGINACID® C (Cetareth-25)	0.5 %
TEGO® Alkanol 1618 (Cetearyl Alcohol)	2.5 %
VARISOFT® 442 100 P	1.1 %
COSMOFERM® Mix III (Isocetyl Alcohol; Ceramide 3; Cetyl Alcohol)	2.0 %
TEGIN® M Pellets (Glyceryl Stearate)	1.5 %
Phase B	
Glycerin	1.0 %
ABIL® Quat 3474 (Quaternium-80)	1.0 %
Water	93.9 %
Phase Z	
Preservative, Parfum	q.s.
Preparation: Mix phase A at 85°C. The COSMOFERM Mix III has to be solubilized clearly. Mix phase B at 70°C. Combine both phases and homogenize. Cool down while stirring, add the perfume below 45°C. Adjust the pH value with Citric Acid.	

Daily Treatment Conditioner PW 11	
Phase A	
TEGINACID® C (Cetareth-25)	1.0 %
TEGO® Alkanol 1618 (Cetearyl Alcohol)	2.5 %
TEGIN® M Pellets (Glyceryl Stearate)	1.0 %
TEGO® Amid S 18 (Stearamidopropyl Dimethylamine)	1.5 %
VARISOFT® 442 100 P	1.1 %
Phase B	
ABIL® OSW 5 (Cyclopentasiloxane; Dimethiconol)	2.0 %
Phase C	
Water	58.4 %
Citric Acid (20%)	0.85 %
Panthenol	0.5 %
Glycerin	2.0 %
Phase D	
Water	30.0 %
Hydroxyethylcellulose	0.6 %
Phase D	
Preservative, Parfum	q.s.
Preparation: Phase D: Dissolve the HEC into the water and let it swell. Heat phases A and C separately up to 70°C. Directly before combining phases A and C, add phase B to phase A. Combine phases AB and C, homogenize. Below 60°C, add phase D. Below 45°C, add perfume and preservatives.	

C 11/04

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