

Prototype
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Eat Well, Live Well.



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Amino Acid Sulfate-free Shampoo

Ajinomoto Health & Nutrition North America, Inc.
4105 Poole Road, Raleigh, NC, 27610
Tel: (919) - 233 - 2367
www.ajiaminobeauty.com

Amisoft® ECS-22W and **Prodew® 500** bring significant benefits to this shampoo which is a simplified & modified version of a popular sulfate-free shampoo. In sensory panel testing this shampoo showed improvements in smoothness & detangling during & after rinsing, and substantial dry hair benefits including: increased smoothness, increased moisturization, & increased shine when compared with the control formula ASC 34-74. The overall performance of this shampoo was preferred over the control.

	Trade Name	INCI Name	Supplier	% w/w	Role of ingredient
A	DI Water	Aqua	-	53.62	Solvent
	Ucare Polymer JR-400	Polyquaterium-10	Nexeo/Dow	0.15	Hair Texture Modifier
B	Amisoft® ECS-22W(30%)	Disodium Cocoyl Glutamate, Water	Ajinomoto	8.50	Amino Acid based surfactant
	Bioterge AS-40K(39%)	Sodium C ₁₄₋₁₆ Olefin Sulfonate, Water	Stepan	25.00	Surfactant
	Ninol M10	Cocamide MIPA	Stepan	1.50	Surfactant
	Glycol Stearate	Glycol Stearate	-	0.75	Surfactant
	Glucamate DOE-120	PEG-120 Methyl Glucose Dioleate	Lubrizol	0.75	Surfactant
C	Chembetaine CAS(50%)	Cocamidopropyl Hydroxysultaine, Water	Lubrizol	6.50	Hair Conditioning Agent, Surfactant
D	Orange Coriander V11715	Fragrance	Continental	0.30	Fragrance
	Kathon CG	Methylchloroisoithiazolinone, Methylisothiazolinone	Dow	0.10	Preservative
E	Prodew® 500 (50%)	Sodium PCA, Sodium Lactate, Arginine, Aspartic Acid, PCA, Glycine, Alanine, Serine, Valine, Proline, Threonine, Isoleucine, Histidine, Phenylalanine, Water	Ajinomoto	1.00	Amino acid cocktail, hair conditioning & texture modifying agent
	NaCl	Sodium Chloride	-	q.s.	Viscosity Modifier
	pH (20% Citric acid sol)	Citric Acid	-	1.83	pH adjustment

Procedure: Disperse the UCare Polymer in the water with rapid agitation. Mix until hydrated. Add phase B and heat to 70°C with gentle agitation. Mix until all solids are dissolved. Add phase C and cool to 45°C. Add phase D and cool to room temperature. Adjust pH q.s. to 5.3-5.6 with a 20% Citric Acid solution. Adjust viscosity with salt.

Stability: 3 months - Stable at 0°C, 40°C, 45°C, R.T, & Freeze Thaw - 3 cycles

Appearance: Pearlescent, viscous liquid

Viscosity: 11,500-17,000 mPas @25°C (LV DV-I+, LV #3, 2.5 rpm, 30 sec) **pH:** 5.3-5.6



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