



514, 6th Floor, Adamji Bldg., 413, Narshi Natha Street, Mumbai - 400 009. (INDIA).

Tel. : 0091-22-2343 9093 | Fax : 0091-22-6634 9992 | E-mail : info@hajexports.com | Web : www.hajexports.com

HAJ PQ 7

HAJ PQ 7 is a high quality , high purity active ingredient for cosmetics, specifically for hair care & skin care products.

CFTA(INCI) Designation: Polyquaternium 7

Chemical Name : Copolymer of diallyl dimethyl ammonium chloride & acrylamide.

HAJ PQ 7 is completely transparent ensuring the required clearness for the cosmetic products.

High solubility in water and compatibility with all surfactants make HAJ PQ 7 an excellent active ingredient which is used for hair care and skin care formulations.

HAJ PQ 7 contains preservatives : 0.1% methylparaben and 0.02% propylparaben.

Product Characteristic

Appearance :	colourless liquid.	pH(as supplied):	6.5-7.5
Colour(APHA):	<50	Brookfield viscosity:	7500-15000 cps *
Odour:	very slight	Molecular weight:	7×10^5
Polymer Charge:	cationic	solubility in water :	complete
Active content:	8-10%	shelf life :	12 months.

Application Characteristics.

Clear, colourless formulations, due to crystal clear aspect.

Ease of incorporation in formulations due to complete solubility in water.

Improved, stabilized viscosity.

Compatibility with all kinds of surfactants.

Hair Care Products:

HAI PQ 7 is a cationic polymer which forms an electrostatic combination with the negatively charged keratin, and improves hair care formulations by

Reducing static and flyaway ; Improving wet and dry combability ;Increasing luster, softness and body.

Skin Care Products.

HAI PQ 7 improves skin Care products by

Increasing slip ; Imparting a silky effect to the skin ;Reducing epidermal water loss which in turn induces a moisturising effect.

Concentration Use

HAI PQ 7 is to be used at concentration of 0.5% to 10% depending upon the required effect and final product (eg to be diluted or not before the formulation is to be used)

It is incorporated at the end of the manufacturing process under stirring.

Formulations with HAJ PQ 7

Formulation guidelines – HAJ PQ 7 #1

HAJ PQ 7 is a cationic polymer used in hair-care products (toiletries and treatment products).

It improves the combing. It gives hair luster and leaves it feeling smooth.

Following are bases in which can be added other ingredients.

Transparent shampoo for dry hair

This example shows the compatibility of **HAJ PQ 7** with anionic surfactants. This property allows you to formulate transparent shampoo.

Ingredients:	%w/w
(1) Sodium laureth sulfate (27 % act.)	30
(2) Cocamidopropyl betaine (31 % act.)	6.5
(3) Cocamide DEA (90 % act.)	2
HAJ PQ 7	2
Perfume	QS
Sodium Chloride	QS
Preservatives	QS
Citric acid	QS pH 6
Water (aqua)	QSP 100

Manufacturing procedure:

Add (1), (2) and (3) in water. Mix well. Add **HAJ PQ 7** with stirring. Add preservatives and perfume. Adjust pH and viscosity.

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HAJ PQ 7

Conditioning shampoo for dry hair

Ingredients:	%w/w
(1) Magnesium Laureth Sulfate (70%)	1.5
(2) Mix of fatty acids ether sulfate (27 % act.)	8
(3) Cocoalkyl dimethylammonium betaine (30 % act.)	4
(4) Sodium Alkyl Ether Sulfate (30 % act.)	2
(5) Disodium Laureth Sulfosuccinate (40 % act.)	2
HAJ PQ 7	2
Pearlescent agent	QS
Perfume	QS
Sodium Chloride	QS
Preservatives	QS
Citric acid	QS pH6
Water (aqua)	QSP 100

Manufacturing procedure:

Add (1), (2), (3), (4) and (5) in water at 50°C. Mix well. Add **HAJ PQ 7** under stirring and the pearlescent agent . Add preservatives and perfume. Adjust pH and viscosity.

HAJ PQ 7

Hair rinse lotion for dry hair

Ingredients:	%w/w
HAJ PQ 7	4
Perfume	QS
Preservatives	QS
Citric acid	QS pH5
Water (aqua)	QSP 100

Manufacturing procedure:

Mix well HAJ PQ 7 with water, preservatives and perfume. Adjust pH.

HAJ PQ 7

Formulation guidelines - HAJ PQ 7 #2

HAJ PQ 7 is a cationic polymer used in skin-care products (toiletries and treatment products).

It leaves the skin smooth and silky.

Following are bases in which can be added other ingredients.

Refreshing body lotion

This example shows the compatibility of FLOCARETMC107 with ethanol.

Ingredients:	%w/w
Ethanol	20
Polysorbate 20	0.3

HAJ PQ 7	5
Perfume	QS
Preservatives	QS
Citric acid	QS pH 5,5
Water (aqua)	QSP 100

Manufacturing procedure:

Mix in water all ingredients in water. Add perfume and preservatives. Adjust pH.

HAJ PQ 7.

Following examples show the compatibility of **HAJ PQ 7** with anionic surfactants.

This property allows you to formulate transparent toiletries products.

Transparent shower gel SG

Ingredients:	%w/w
(1) Sodium lauryl sulfate (30 % act.)	24.8
(2) Disodium laureth sulfosuccinate (40 % act.)	17.4
(3) DEA Coprah (90 % act.)	2.8
HAJ PQ 7	1.8
Perfume	QS
Sodium Chloride	QS
Preservatives	QS
Citric acid	QS pH 5.5
Water (aqua)	QS 100

Manufacturing procedure:

Add (1), (2) and (3) in water, at 50°C. Mix well. Add **HAJ PQ 7** with stirring. Add preservatives and perfume. Adjust pH and viscosity.

Bubble bath FB 8

Ingredients:	%w/w
(1) Magnesium laureth sulfate (70 % act.)	5.4
(2) Sodium laureth sulfate (27 % act.)	16.3
(3) TEA laureth sulfate (36 % act.)	21.7
(4) DEA Coprah (90 % act.)	4.3
HAI PQ 7	2.3
Perfume	QS
Sodium Chloride	QS
Preservatives	QS
Citric acid	QS pH4,5
Water (aqua)	QS 100

Manufacturing procedure:

Add (1), (2), (3) and (4) in water, at 50°C. Mix well. Add **HAI PQ 7** with stirring.

Add preservatives and perfume. Adjust pH and viscosity.