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HAJ Super 7 ***For the Cosmetic Industry.***

HAJ SUPER 7

Haj Super 7 is a higher solid content Polyquat 7

This is a very effective conditioning active material for use in hair care and skin care formulations

Haj Super 7 has an active content of 40% which gives more use benefits over typical 8-10% actives conditioning agents (Polyquaternium-7) available in the marketplace .

Haj Super 7 has been extensively tested by laboratories and the evaluation shows good advantages over typical Polyquaternium-7 in terms of physical compatibility, combing forces, substantivity on hair and conditioning .

INCI/CTFA: Polyquaternium-7

HAJ SUPER 7

is completely transparent ensuring the required clearness for all cosmetic products. High solubility in water and compatibility with all types of surfactants makes ***HAJ SUPER 7***

an excellent active ingredient which can be incorporated into hair care and skin care formulations.

HAJ SUPER 7

contains preservatives: 0.1% methylparaben,0.02% propylparaben.

PRODUCT CHARECTERISTICS : HAJ SUPER 7

<i>Appearance</i>	<i>Colourless liquid</i>	<i>pH</i>	<i>5.0 - 6.5</i>
<i>Colour APHA</i>	<i>< 50</i>	<i>Brookfield viscosity</i>	<i>4000 cps</i>
<i>Odour</i>	<i>Very slight</i>	<i>Molecular weight</i>	<i>~ 1-2 x 10⁵</i>
<i>Polymer Charge</i>	<i>Cationic</i>	<i>Solubility in water</i>	<i>Complete</i>
<i>Active content</i>	<i>38-42%</i>	<i>Shelf life</i>	<i>12 months</i>

APPLICATION CHARECTERISTICS

- Clear colourless cosmetic products due to crystal clear aspect.
- Ease of incorporation in the formulation due to complete water solubility in all proportions
- Improved stabilized higher actives product
- Compatibility with all kinds of surfactants.

HAIRCARE PRODUCTS

HAJ SUPER 7 is a cationic polymer which forms an electrostatic combination with the negatively charged keratin and improves hair care formulation by :

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

SKINCARE PRODUCTS

- Increasing slip & Imparting a silky effect to the skin.
- Reducing epidermal water loss which in turn induces a moisturizing effect.

COMPATIBILITY

HAJ SUPER 7 is compatible with all surfactants.

CONCENTRATION USE

HAJ SUPER 7 should be used at concentration of 0.3 % to 3.0 % depending on the required effect and the final product. It should be added at the end of the process and under agitation.

TOXICOLOGY SUMMARY.

Acute toxicity

LD50 oral (rat) > 5000 mg/kg

LD50 oral (rabbit) > 5000 mg/kg

Irritation

Primary eye irritation : very slightly irritant.

STORAGE

HAJ SUPER 7 should be stored at a temperature between 10 & 45 °C

PACKAGING

HAJ SUPER 7 is available in 25 Kgs HDPE Carbouys or 200 kgs drums.