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HAJMER EC - 1 POLYMER

Multifunctional Liquid Polymer for Skin and Sun Care in O/W Emulsions

INCI Name: Acrylates/Acrylamide Copolymer (and) Mineral Oil (and) Polysorbate-85

HAJMER EC-1 polymer is a novel easy to use multifunctional polymer designed to thicken, suspend, stabilize, emulsify and enhance skin feel. It offers a new way to formulate skin care products.

Description

- Pre-neutralized, crosslinked anionic polymer, dispersed in oil.
- Milky, opaque liquid.
- Contains 26-28% polymer solids.
- Contains less than 30% mineral oil.

Applications

Skin care and sun care O/W emulsions, creams and lotions that:

- Can be dispensed in many ways, including sprayable products.
- Are stable formulations even in the presence of electrolytes, natural ingredients and/or inorganic pigments such as Zinc Oxide.
- Provide differentiable skin feel.

Benefits

HAJMER EC-1 polymer performs as a multi-functional ingredient that modifies rheology, stabilizes, emulsifies, co-emulsifies, and suspends while enhancing sensory properties:

- Performs efficiently in the presence of electrolytes.
- Demonstrates good rubout properties and an excellent afterfeel with a distinctive skin softness and absence of tack.

Is an easy to use, pre-neutralized liquid that can be formulated at cold temperature. Can be added at any stage of the formulation, saving processing time.

- Can suspend inorganic pigments, such as Zinc Oxide.
- Is capable of emulsifying or co-emulsifying a broad range of oils (free from HLB calculations).
- Maintains product integrity under challenging conditions (temperature, shear stress).

Formulating Guidelines

- Effective as a primary or secondary emulsifier.
- Recommended use levels are 1-4 % as supplied.
- Polymer, if added directly to water phase, will rapidly thicken.
- Polymer added directly to oil phase will disperse.
- Post addition is feasible to adjust final viscosity.
- Neutralization is not required.
- Cold process formulating feasible.

Recommended for formulations between pH 5.5 to 11. To formulate at pH of 5 to 6, use low levels of Carbopol® polymers or add mild acid.

Literature Available

Technical Data Sheet
Product Specification Sheet
Material Safety Data Sheet
Sample Formulations

Microbiology

HAIJMER EC-1 polymer has passed the test for Mixed Inoculum Preservative Efficacy (Challenge test). It does not contain preservative or anti-oxidant.

Toxicology

The toxicity profile of HAIJMER EC-1 polymer indicates that it has a low potential for causing irritation or sensitization in finished personal care products. These data indicate that it is suited for personal care applications where there is contact with skin or where there is a potential contact with the eyes.

Other Information

The Schedule B number for exports from is 3906.90.60.