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PolyGel Emollient

Specification Sheet

Description: Palm-free, plant-derived high-viscosity emollient ester made from naturally derived fatty acids that are uniquely linked together to form a stable oligomer. Offers enhanced stability properties, exceptional moisturization characteristics, and a light, satiny feel. Fully biodegradable. Dynamic viscosity 1,300 cp. Molecular weight 2,680g/mol. Clear amber, viscous liquid, slightly sweet odor. Insoluble in water. Dispersible in oils & fats.

CAS: 2361055-93-6

INCI Name: Acetyl ethylhexyl polyhydroxystearate

Benefits:

- Multi-functional, natural, eco-friendly emollient providing a non-oily, non-tacky, elegant skin feel
- Has moisturizing, softening, and conditioning and unique lubricious effects. Non-comedogenic
- Delivers superior hydrating properties but with a dry feel and fast skin absorption
- Acts as a thickening agent enhancing the consistency, viscosity and volume of personal care products
- Reduces coefficient of friction on hair providing sheen and moisture retention
- Has superior oxidative stability
- Improves the hydrolytic stability of the product over other naturally derived oils
- Allows for high pigment loading and enhance color intensity due to its polar nature
- Boost UV protection due to its UV blocking properties

Use: Typical use level 1-20%, add to oil phase of formulas or at the end of formula. Do not heat over 50°C (125°F). For external use only.

Applications: Creams & lotions, baby care products, bath & shower products, color cosmetics, hair shampoo & conditioners, hair styling products.

Country of Origin: USA

Raw material source: Fatty acids derived from various natural oils including, for example, castor oil

Manufacture: Acetyl ethylhexyl polyhydroxystearate is produced by linking fatty acids together through estolide bond to form a unique oligomer (polymer).

Animal Testing: Not animal tested

GMO: GMO free

Vegan: Does not contain animal-derived components