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Designing the Feel: Hydrocarbons of Biobased Origin for Next-Generation Emollient Performance

Pilot Chemical Company

www.pilotchemical.com

PRODUCT/SERVICE BACKGROUND INFORMATION

As regulatory oversight intensifies regarding cyclic silicones such as D5—recently subject to restrictions in the European Union under Regulation (EU) 2024/1328—the industry is proactively exploring safer and more sustainable alternatives. D5, widely appreciated for its volatility, sensory characteristics, and overall feel, is being phased out due to its classification as a very persistent and very bioaccumulative (vPvB) substance. To address these concerns, formulators are turning toward new generations of D5 replacements that satisfy both environmental and regulatory standards. Esters, branched hydrocarbons, and natural oils can replicate certain properties and functions of silicones. However, they differ in attributes like volatility, sensory match, stability, and their ability to meet sustainability objectives.

WHAT IS THE COMPANY INTRODUCING TO THE MARKET/INDUSTRY?

Pilot Chemical Company is proud to present UpSyCal® BA14 and UpSyCal® BA17—advanced emollient solutions from a biobased origin, designed to enhance sensory experience in skincare while also adhering to the demands of an increasingly complex regulatory landscape.

HOW WILL THIS NEW PRODUCT/SERVICE IMPACT THE INDUSTRY (BENEFITS)?

UpSyCal® BA14 and UpSyCal® BA17 deliver a silky glide, quick absorption, and a polished finish like both classic silicones and newer alternatives. In addition to these benefits, they also help you avoid the environmental impact and regulatory issues that typically come with silicone-based ingredients.

As innovative solutions, they present a thoughtful option for formulators seeking alternatives that balance performance with sustainability and regulatory compliance. Suitable for use in clean beauty, skincare, and cosmetic formulations, UpSyCal® BA14 and UpSyCal® BA17 emollient solutions help brands meet consumer and regulatory goals, supporting advancements in product development and market confidence.