

# PERSONAL CARE POST

## Mild Cleansing System Tactile Enhancers



Surfactants in skin cleansers interact with the skin in several ways. They provide the desired benefit of skin hygiene, but surfactants may also extract the skin's natural oils and remain in the stratum corneum (SC) after rinsing. These side effects disrupt SC structure and degrade its barrier properties.<sup>1</sup> This may lead to skin redness (erythema), irritation, dryness and itchiness.

Mild cleansing surfactants for personal care applications, such as amino acid-based and sulfate-free, have been gaining popularity in Asia.<sup>2</sup> This is particularly notable for countries such as Japan, China, Korea and Australia.<sup>3</sup>

Typical sulfate-free formulations are less irritating, more mild to the skin and provide less fading to color-treated hair. And while mild cleansing surfactants bring obvious benefits to the consumers, there are several challenges faced by formulators who may decide to formulate using amino-acid surfactants in rinse-off systems. Notable challenges include lower viscosity and foaming.

This issue explores how formulators can overcome the challenges of viscosity building and foam boosting for both sulfate-free and amino acid-based surfactant systems. For example, our initial system used a combination of amino acid-based surfactant (sodium cocoyl glycinate or glutamate), cocamidopropyl betaine (CAPB) and cocamide DEA (CDEA). When we replaced CAPB and CDEA with Stepan Company's **LATHANOL® LAL COARSE**, **AMPHOSOL® CDB-HP** and **NINOL® CAA**, we found significant enhancement shown to the tactile properties.

### **LATHANOL LAL COARSE**

(INCI: Sodium Lauryl Sulfoacetate)

A mild cleansing surfactant with outstanding performance proper in many specialized personal care applications: cosmetic, dentifrice, bubble bath, syndet bar and cleansing cream, as well as cream and paste shampoos. LATHANOL LAL is often used in place of soap in many proprietary products directed at individuals with sensitivity to soap.



### **AMPHOSOL CDB-HP**

(INCI: Cetyl Betaine)

A unique secondary surfactant designed to improve the viscosity response of mild cleansing surfactant systems. It is an enhanced amphoteric surfactant formulated for cold processing and easy handling. It can also be used as a mild primary surfactant, foam booster or static control agent. CDB-HP is excess alkalinity-preserved to give formulators flexibility in choosing their preferred preservative system.



### **NINOL CAA**

(INCI: Dimethyl Lauramide/Myristamide)

A naturally derived aesthetics enhancer and fragrance solubilizer, NINOL CAA provides superior viscosity building and foam stability compared to traditional amides such as CDEA. NINOL CAA also enables the solubilization of fragrances at room temperature while still maintaining excellent viscosity and foam properties, providing customers an opportunity to minimize the use of other ingredients.



For more information about Stepan Personal Care, visit [www.stepan.com/personalcare](http://www.stepan.com/personalcare)

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