

Phase-inversion emulsifying-systems based on Acyl Glutamate and Polyglyceryl surfactant types.

ZSCHIMMER & SCHWARZ INTERPOLYMER INC

<https://www.zschimmer-schwarz.com/en/>

PRODUCT/SERVICE BACKGROUND INFORMATION

The creation of a water-thin emulsions with oil phase content of more than 25% for use as make-up remover led to a new combination of polyglycerol esters and amino acid-based surfactants with high index of naturality, to carry out an emulsion-formation using phase inversion of nonionic surfactants.

WHAT IS THE COMPANY INTRODUCING TO THE MARKET/INDUSTRY?

The test results show that with the help of this emulsifier/surfactant combination, a variety of emulsions with correspondingly different characteristics and properties can be achieved. The selection of the emulsifier components, but also other factors, such as e.g. the pH value during emulsion formation allows the resulting emulsion properties to be influenced.

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

Emulsions with extremely small droplet sizes have different advantages, most important the very low viscosity with high amounts of oil-phase and the good stability which is improved by the small droplet sizes.

Finding new compounds/ combinations of surfactants/ emulsifiers that can be used in the formation of PIT-Emulsions could offer new possibilities for the application of such emulsions in the cosmetic field.

The system described, which works without the use of PEG compounds, also meets the current requirements of the industry and is also conceivable for use in leave-on formulations due to the harmlessness/ mildness of the raw materials used.