

A Study of Performance Properties of Alkyl Poly(glucoside) and Sodium Dodecylsulfate in their Mixed Systems

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Abstract — The interaction parameters and performance properties such as solubilizing capacity and foaming behaviour of the aqueous Alkyl poly (glucoside) (APG)–sodium dodecylsulfate (SDS) mixed surfactant system have been investigated. The critical micellar concentrations (cmcs) obtained by surface tension measurements revealed that there is a synergism between these two surfactants. Performance properties such as solubilizing capacity have been investigated by measuring the absorbance and the viscosity of solubilized polar oily materials like octanol, decanol, dodecanol. The solubilizing phenomenon exhibited by mixed surfactant systems showed better results than that of the individual surfactant system. The foaming capacity of Alkyl poly (glucoside) with Sodium dodecylsulfate showed highly stabilized foaming behaviour in both distilled water as well as in hard water (324 ppm).