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A Study on Household and Industrial Surfactants through Emulsion Stability Trials

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Abstract: Surfactants are surface active agents, which play a vital role in both household and industrial applications. Surfactants happen to be a part of our daily life style, from morning tooth paste to night dish washing solutions. Domestic surfactants are a good cleaning agent, emulsifier, binders, corrosion inhibitors and bleaching agents. The household surfactant products performance makes our life in good health and cleanness. Surfactants applications in industries assist the production processes in more refined and hygienic way. The emulsifying ability determines the surfactants capacity to remove oil from clothes or combine the immiscible liquids to form creams. The household and industrial surfactants selected for the experimental studies were found to contain a good emulsifying property with various oils tested. The selected surfactants were capable of withstanding a higher salt concentration and a stable emulsion formed up to 100°C.

Keywords: Surfactants, Emulsion, immiscible, binders, cleanness, inhibitors, bleaching, oils.

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