

Poster Sessions

P-5 Evaluation of Didecylmethylamine Oxide as an Emulsifier and Dispersing Agent

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Didecylmethylamine oxide was compared to stearyl-dimethylamine oxide as a water-in-oil emulsifier. Factors evaluated in this comparison include emulsifier concentration, pH and oil/water composition. In general, didecylmethylamine oxide proved to be a more efficacious water/oil emulsifier than stearyl-methylamine oxide. This performance differential is explained in terms of differing solubility and molecular geometry.

P-6 Environmental Aspects of Cationic Fabric Softeners

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This paper will discuss use patterns; routes into the environment; sewage treatment: concentration in surface

waters, sludge and sediments; cationics in soil and their degradation in soil.

P-7 Improvement of Whiteness of Palm-Based Soaps and Color Stability of Fatty Acids via Peroxide Bleaching

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Various types of treatments were attempted in order to improve the degree of whiteness of soaps and to improve the color stability of fatty acids based on palm oil and palm oil products. Hydrogen peroxide (30% concentration) treatment followed by acid and water washings was found to be the most effective for both purposes. High percentage of bleaching earth was effective in reducing the color of the oil/fat but was unable to reduce the saponification color to lower than 3R (Lovibond), implying that it may not be an economically suitable pretreatment method for the production of "pure white soaps."

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