

Poster

HIGH PERFORMANCE READILY BIODEGRADABLE SURFACTANTS
Cleaning Formulations Using Rapid Formulation Development

Molly I. Busby, Christopher J. Tucker, Keith Harris, Henry Chen - Dow
Fabric & Surface Care

Summary

The shift to more environmentally friendly formulations is leading formulators to produce their products from bio-renewable raw materials. As part of Dow's drive to sustainability, we have introduced two new environmentally friendly surfactants based on renewable seed-oils. Results and Discussion: These surfactants exhibit excellent wetting properties and surface tension reduction. They provide rapid dissolution at any ratio for aqueous solutions and, they have good solubility with solvents and electrolytes. The solubility properties give stable, easily developed formulations and make them suitable for laundry concentrates with little or no water. These concentrates minimize shipping of water, saving on transportation costs and pollution. Fast formulation methodology has been used to prepare formulations with these new surfactants. Examples of these formulations in various cleaning areas will be discussed.