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## New sustainable surfactants for innovative cosmetic products

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### PURPOSE OF THE ABSTRACT

Wheatoleo presents its new biocide booster surfactants composition which have been designed to support risk free cleaning formulations. The first one is the C8/C10-based Polypentosides of the Appyclean Functional range (6781F) that displays outstanding surfactants properties but also a low risk and hazard profile and wide range of antimicrobial properties to allow the preservatives use reduction or the design of preservatives free formula. The composition is a synergistic association of alkylpolypentosides and Glycine betaine ester, the later being the first 100 % natural based cationic surfactant, affording antimicrobial properties to the surfactants mixture. Examples of different personal care, homecare and I&I formulations with Appyclean 6781F will be presented showing that an optimal cost/performance ratio and low toxicological and environmental risk can be achieved by applying green and sustainable principles of product development and production.

Wheatoleo is a producer of sustainable surfactants derived from renewable resources ? mainly of european origin ? at its biorefinery plant located in Pomacle / Champagne ? France. Wheatoleo fully respects the ?green chemistry? rules: no use of petrochemical components nor toxic catalysts, reduction and maximum valorization of waste green materials at lowest energetical needs. Based on this philosophy, Wheatoleo launched several years ago the new Alkylpolypentose chemistry, the Appyclean surfactants and hydrotrope range.

## FIGURES

FIGURE 1

FIGURE 2

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KEYWORDS

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BIBLIOGRAPHY