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New active supported antifungal systems for potential aeronautical application

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ABSTRACT

The aim of this contribution was the development of new active supported antifungal particles which can deliver a biocide following an acidic trigger due to the presence of fungal strain, the *Hormoconis Resinae*. These particles were synthesized by free radical emulsion polymerization of a protected glycoacrylic monomer. After a deprotection step the antifungal potential of these particles has been evaluated.

KEYWORDS

Nanoparticle, Glycopolymer, Aminosugar, Antifungal activity, *Hormoconis resinae*.

INTRODUCTION

Microbial contamination in aircraft fuel tanks is a current phenomenon, which can seriously cause damage and heavy safety problems. Indeed, the microorganisms induce chemical corrosion of the tank walls due to their ability to produce organic acids. Among the different fuel contaminants the most commonly reported is *Hormoconis resinae* (*H. resinae*) a filamentous fungal strain. In order to limit the development of the strain various organic

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