

Products based on accelerated and stabilized hydrogen peroxide: Evidence for cleaning and sanitizing efficiency, environmental and human safety and non-corrosiveness

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ABSTRACT

Chemical disinfectants based on accelerated hydrogen peroxide[®] have shown promise as safe, effective and fast alternatives to traditional disinfectant chemistries.

BACKGROUND

Traditional disinfectant chemistries have been inherently compromised between effectiveness and safety of the user and environment. A new line of disinfectants, formulated with stabilized hydrogen peroxide and a mixture of commonly-used anionic surfactants (detergents), help address this need for a safer, more environmentally friendly product. This study aims to evaluate the efficacy of this emerging class of disinfectants.

STUDY

The study evaluated AHP[®] against five key criteria:

- Cleaning and decontamination efficacy
- Volatile organic compound (VOC) release
- Eye and skin irritation and corrosiveness
- Acute oral toxicity
- Corrosiveness to various metals, compared to

other common disinfectants

RESULTS

Efficacy was achieved against *Pseudomonas aeruginosa*, measured by tests determined by the Canadian General Standards Board. VOC levels in headspace tests fell below detection limits. Corrosion effects on tested metals were low. In addition, all products tested were non-irritating, non-corrosive to the skin and eyes, and non-toxic.

CONCLUSION

AHP[®] has shown its capabilities as a solution to harsh chemical disinfectants on hard surfaces.

REFERENCE

Rochon M, Sullivan N. (1999). Products based on accelerated and stabilized hydrogen peroxide: Evidence for cleaning and sanitizing efficiency, environmental and human safety and non-corrosiveness. CJIC. 51-55.