A review about Diphotérine®

the solution for emergency decontamination of chemical splashes

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Introduction

The diverse range of chemicals currently being used throughout industry present a significant potential hazard to health(1) when personnel become contaminated as a result of accidental splashes(2).

The need to use a polyvalent and active rinsing solution becomes more and more necessary.

Materials and methods

Diphotérine® is an emergency first aid rinsing solution for eye/skin chemical splashes. Using its hypertonicity(3) and its chemical properties(4), Diphotérine® is able to stop and absorb the aggressiveness of a wide spectrum of chemicals and remove them from the tissues. Diphotérine® is a non toxic(5) solution (Oral Toxicity LD50>2000 mg/Kg, Test 6564 TAR 1990 CIT, France; Acute Dermal Toxicity LD50>2000 mg/Kg, test 133/9, 1988, Safepharm Laboratories, UK). It is slightly irritating on the skin and non irritant in the eye (test 133/3-133/4, 1987, Safepharm Laboratories, UK). Its residues with acids and bases are non irritant (test 6463TAL/6462TAL, 1990, CIT, France). The environmental effects of Diphotérine® have been studied and it was found non toxic by Microtoxicity company, a secondary rinsing with Diphotérine® was performed in the medical centre.

Results

Using Diphotérine® resulted in a noticeable decrease in sick leave average and a standard deviation. No secondary care was necessary. There is a significant difference (p<0.05) between Diphotérine® and water concerning secondary care.

Conclusion

The emergency use of Diphotérine® is a good way for the decontamination of ocular or cutaneous chemical splashes. Its emergent use often gives an immediate pain relief. It achieves a reduction of loss of work and secondary care in all cases and avoids sequelae for the workers.

References

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