

Title (en)
Process and product for radioactive decontamination

Title (de)
Verfahren und Produkt zur radioaktiven Dekontamination

Title (fr)
Procédé et produit de décontamination radioactive

Publication
EP 1469482 B1 20100324 (FR)

Application
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Priority
FR 0303884 A 20030328

Abstract (en)
[origin: EP1469482A1] A method for decontaminating surfaces with aqueous foam containing cerium(IV) involves mixing an acid aqueous solution of cerium(IV) with an aqueous solution of non-ionic surfactant in a foam generator just before application to the contaminated surface. A method for decontaminating articles with contaminated particles on the surface comprises: (a) making an acid aqueous solution of cerium(IV) with a pH of less than 3 (solution 1); (b) making an aqueous solution of non-ionic surfactant(s) which is/are oxidised by Ce(IV) (solution 2) and keeping this in a separate container from solution 1; (c) feeding a mixture of solutions 1 and 2 into a foam generator in the proportions required for the formation of foam by the action of the surfactant; and (d) flooding the surface of the article with the foam. An independent claim is also included for a decontamination product for use in the above application, containing solutions 1 and 2 in separate containers.

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