

1 **"BROAD SPECTRUM DECONTAMINATION FORMULATION**
2 **AND METHOD OF USE"**
3

4 **ABSTRACT OF THE INVENTION**

5 A decontamination formulation is provided which is effective against
6 a broad spectrum of chemical and biological warfare agents and radioactive
7 dusts, comprising an active decontamination agent, a co-solvent, a buffer system
8 to optimize the initial reaction pH above 8.5 and more preferably in the range of
9 10 to 11 for favoring oxidation of VX and HD and hydrolysis of G agents, and a
10 surfactant similar to fire-fighting foaming agent. Formulations comprise, in water
11 by weight, 1% to 15% of a hydrated chloroisocyanuric acid salt, 1% to 10% of a
12 polypropylene glycol co-solvent, 1% to 15% surfactant and a buffer system to
13 initially maintain said formulation at a pH from about 11 to about 8.5 for sufficient
14 duration to effect decontamination. The formulation can be provided in kit form or
15 concentrate form, be prepared, in part, in advance or on site, and be dispensed in
16 foam form which aids in coating and adhering of the decontamination formulation
17 to contaminated surfaces. All ingredients can be pumped through a foam nozzle
18 or water, co-solvent and surfactant can be pumped to the nozzle with solutions of
19 buffer and of active ingredient being introduced at the nozzle for minimizing pump
20 exposure.



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