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(54) Title: METHOD OF DECOMPOSING ORGANOPHOSPHORUS COMPOUNDS

(57) Abstract: Methods and kits for decomposing organophosphorus compounds in non-aqueous media at ambient conditions are described. Insecticides, pesticides, and chemical warfare agents can be quickly decomposed to non-toxic products. The method comprises combining the organophosphorus compound with a non-aqueous solution, preferably an alcohol, comprising metal ions and at least a trace amount of alkoxide ions. In a first preferred embodiment, the metal ion is a lanthanum ion. In a second preferred embodiment, the metal ion is a transition metal.



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