A Process for Coating Biological Pesticides and Compositions Therefrom

OVERVIEW
Baculoviruses are known biological materials having insecticidal activity. The commercial utility of these materials has been limited though because, without special formulation, like most biological materials are readily deactivated by the UV radiation in sunlight.

The incorporation of UV protectants in a variety of ways is known and some can enhance the stability of these viruses somewhat; however such compositions can be complicated, expensive to prepare and further improvements in stability and compatibility with the virus are needed.

The present invention relates to a pesticidal composition comprising negatively charged particles of a viral pesticide and positively charged particles of durable TiO₂ in an amount sufficient to substantially coat the particles of the viral pesticide wherein said durable TiO₂ particles have a continuous, nonporous coating comprising alumina forming a cationic surface on said durable TiO₂ particles, and wherein said durable TiO₂ particles are electrostatically fixed to the surface of the particles of said viral pesticide.

U.S. patent No. 6,113,950 issued to Dupont on September 5, 2000. Dupont has graciously donated the patent to the University of Maryland, College Park. For more information, please Office of Technology Commercialization at 301 405-3947 or by email: otc@umd.edu

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LICENSE STATUS
Contact OTC for licensing information

EXTERNAL RESOURCES

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