TECHNOLOGY

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 changed 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 TiO.sub.2 particles have a continuous, nonporous coating comprising alumina forming a cationic surface on said durable TiO.sub.2 particles, and wherein said durable TiO.sub.2 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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Additional Information

INSTITUTION

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PATENT STATUS

U.S. Patent 6,113,950 issued.

LICENSE STATUS

Contact OTC for licensing information

EXTERNAL RESOURCES

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