



Books Conferences News About Us Home Journals Job: Home > Journal > Earth & Environmental Sciences > JEP Open Special Issues Indexing View Papers Aims & Scope Editorial Board Guideline Article Processing Charges Published Special Issues JEP> Vol.3 No.8, August 2012 • Special Issues Guideline OPEN ACCESS JEP Subscription Steviaside Containing Plant as Deconstractive (Degradative) Agent for Persistent Organic Pollutants Most popular papers in JEP PDF (Size: 277KB) PP. 767-772 DOI: 10.4236/jep.2012.38091 **About JEP News** Author(s) Khamid U. Khodjaniyazov, Nazira K. Khidirova, Nuridin I. Mukarramov, Mashrab M. Khakimov, Barot A. Frequently Asked Questions Urakov, Khusnutdin M. Shakhidoyatov **ABSTRACT** Recommend to Peers Steviaside containing plant extracts have been used for degradation of persistent chloroorganic pesticides. Reactions between DDT and Steviaside or sum of extractive substances isolated from ground up part of Recommend to Library plant Stevia were studied to give of less toxic DDE. Herein researches on studying interaction sum of polysaccharides of Stevia with DDT in various ratios resulted also. The GC-MS and GLC methods were used Contact Us for analyzing degradation degree of pesticides and to determine obtained compounds. Treat HCCH by water extract of Stevia basically formed tetrachlorocyclo-hexadiene (HCH) with 86.9% yield and in particularly formed of tri-, tetrachlorobenzenes. The HCH formed in 79.7% on treat pesticide by 80% Downloads: 301,502 Steviaside. Degradation of HCCH and DDT by water extract of Stevia in a presence of Ana-basine in a ratio of 2:1:1 occur to degrade of HCCH up to 70-80%, and DDT on 25% - 30%. Visits: 673,314 **KEYWORDS** Chlorinated Pesticides; Extracts of Stevia; Steviaside; Degradation Sponsors, Associates, ai Links >> Cite this paper K. Khodjaniyazov, N. Khidirova, N. Mukarramov, M. Khakimov, B. Urakov and K. Shakhidoyatov, "Steviaside • The International Conference o Containing Plant as Deconstractive (Degradative) Agent for Persistent Organic Pollutants," Journal of Pollution and Treatment Environmental Protection, Vol. 3 No. 8, 2012, pp. 767-772. doi: 10.4236/jep.2012.38091. Technology (PTT 2013) References [1] T. A. Henry, "Chemistry of Plant Alkaloids (in Russian)," Translation from English, under Edition Acad. Rodionov, Goskhimizdat, Moscow, 1956, pp. 59-71. [2] K. M. Shakhidoyatov, M. M. Khakimov, N. I. Mukarramov, N. K. Khidyrova, K. U. Khodjaniyazov and B. A. Urakov, "The Ways of Degradation of Proof Chlororganic Pollutants by Plant Extracts," 7th International Sym- posium on the Chemistry of Natural Compounds, Tashkent, 16-18 October 2007, p. 147. N. K. Khidirova, K. M. Shakhidoyatov and N. I. Mukarramov, "Detoxification of Chloroorganic [3]

Pesticides by Extracts of the Elevated Part of Plant Stevia," 11th International Symposium on

K. M. Shakhidoyatov, M. M. Khakimov, N. I. Mukarramov and B. A. Urakov, " The Use of Alkaloid

Containing Plant Extracts for Detoxification of DDT," Materials of Mendeleev Congress, Moscow, 23-

K. U. Khodjaniyazov, N. I. Mukarramov, N. K. Khidirova, M. M. Khakimov, B. A. Urakov, E. S. Brodsky and K. M. Shakhidoyatov, "Degradation and Detoxification of Persistent Organic Pollutants in Soils

Natural Product Chemistry, Karachi, 29 October-1 November 2008, p. 131.

[4]

[5]

29 September 2007, p. 131.