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Bibliographic Information

Detoxification of carbamate pesticides by halamine structures. Fei, Xin; Shibamoto, Takayuki; Gao, Pengfei; Sun, Gang. Division of Textiles and Clothing, University of California, Davis, Davis, CA, USA. Abstracts of Papers, 229th ACS National Meeting, San Diego, CA, United States, March 13-17, 2005 (2005), AGRO-065. Publisher: American Chemical Society, Washington, D. C CODEN: 69GQMP Conference; Meeting Abstract written in English. AN 2005:185770 CAPLUS (Copyright (C) 2005 ACS on SciFinder (R))

Abstract

Halamines are compds. contg. N-Cl or N-Br structures and widely used as disinfectants for swimming pools and recreation water. These compds. are able to oxidize many toxic compds. including pesticides. In recent years, halamine contg. fabrics possessing durable and rechargeable biocidal properties were developed. A preliminary study of using the halamine fabrics in detoxifying certain pesticides has produced some interesting results, showing that several carbamates were decompd. rapidly by contact. Recent developments in halamine materials have resulted in fabrics contg. different halamine structures such as imide, amide, and amine halamine, in an order of oxidative reactivity. This reactivity will also affect the power of detoxification of toxic chems. In order to systematically understand the detoxifying mechanisms of halamine fabrics, we have performed a pesticide detoxifying study using different halamine compds. This presentation will discuss our latest results in this study.