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User Last seen\* (optional)Fate of triclosan and its transformation products in soil. Triclosan (TCS) is one of the most frequently detected emerging contaminants in the environment and in agricultural soils. It has been widely used as a bactericidal agent in food contact products, personal care products, and medical devices. TCS is predominantly applied as an antiseptic in both household and commercial products, which can lead to its high leaching potential in soils. In addition, TCS has been widely detected in natural ecosystems. This work investigated the fate and transformation of TCS in six soils collected from three areas in China. Aqueous TCS was stable under various conditions (pH, ionic strength, and temperature). TCS was moderately adsorbed to soils, followed by hydrophobic adsorption and then partitioning to the adsorbed fractions. Results from batch sorption experiments indicated that clay minerals could significantly affect TCS sorption in soils. TCS was prone to photodegradation in the dark, but readily transformed to chloroform-bis(trifluoromethylsulfon)imide (CF<sub>3</sub>SO<sub>2</sub>-NTF<sub>2</sub>) and chloroform (ClCH<sub>2</sub>O) under simulated solar irradiation. ClCH<sub>2</sub>O was the dominant transformation product in soils. TCS was dechlorinated to CF<sub>3</sub>SO<sub>2</sub>-NTF<sub>2</sub> and ClCH<sub>2</sub>O under aerobic condition in the dark. The results also indicated that TCS was more prone to biodegradation in soils than in organic extracts. The concentrations of TCS and its transformation products (TCS, ClCH<sub>2</sub>O, CF<sub>3</sub>SO<sub>2</sub>-NTF<sub>2</sub>) in soils decreased with time, and no significant accumulations were observed in all six soils. Overall, our results indicate that TCS is more prone to photolysis and biodegradation than to adsorption and sorption. Be Sure to Visit the Pink Dots Blog and join our mailing list to receive our latest offers. Cheryl Brown: How to sell Hi, I'm Cheryl and I can be your online sales assistant How to sell "I'm not selling anything" and "no I'm not going to buy anything" are two phrases that are commonly uttered by sellers and shoppers alike. But, we should not only be 82157476af

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