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4 : Ecological risk assessment and human health risk assessment of chemicals, mixtures and stressors and risk mitigation strategies

Advances in Soil Ecotoxicology and Risk assessment – Impact, Ecotoxicity tests, Monitoring and Risk assessment of soil stressors

Terrestrial ecotox studies with difficult substances – A comparison of different application techniques

The OECD Guidance document no. 23 identifies different classes of so-called difficult substances. Dependent on the physico-chemical properties of these substances, non-standardized test designs are presented and recommended. No such guidance is available for terrestrial ecotoxicity studies in soil although testing of different classes of chemicals and supporting analytical measurements become ever more important. We compared different techniques of soil application for three representatives of difficult substances. All combinations were supported by analytical measurements of the spiked soil. The analytical results were compared and discussed regarding recovery in soil, homogeneity of distribution and the overall usefulness of the different application techniques for difficult substances.