

Chlorinated paraffins and their bioaccessible fraction in dust samples from various public and private microenvironments

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Dust from seven different microenvironments (prefab older apartments, new houses, kindergartens, schools, offices, public spaces and cars) were sampled during 2019. Two dust fractions were used for the experiment: (1) bulk dust with particular matter <2 mm and fine dust with particular matter <0.25 mm. The dust samples are being used for comprehensive analysis, including bioaccessibility testing, physical and chemical characterization, and toxicity testing. Analysis for short and medium chained polychlorinated paraffins (SCCPs and MCCPs) was done at NIES, Japan. This talk will cover the results for the chemical content of SCCPs and MCCPs and their bioaccessibility in dust determined with physiologically-based extraction tests.