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Uptake of BDE-209 on zebrafish embryos as affected by SiO₂ nanoparticles

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Abstract

It was hypothesized that interactions between emerging contaminants such as decabromodiphenyl ether (BDE-209) and nanoparticles (NPs) such as nano-SiO₂ (nSiO₂), can affect contaminant transport in the aquatic environment and its ecotoxicity. This study assessed the influence of nSiO₂ on the uptake of BDE-209 by zebrafish embryo. The distribution of BDE-209 and nSiO₂ on the external chorion and the internal embryo mass (*i.e.*, dechorionated embryo) was measured. For single exposure of nSiO₂ to zebrafish embryo, separately, results showed that nSiO₂ accumulation on the chorion surface was higher than that in the dechorionated embryo. The nSiO₂ accumulation on the chorion surface was

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