

Poster Number

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Topic	Risk assessment: Problem definition and conceptual model
Title	REACH Regulatory Framework for Sediment Risk Assessment under Dossier Evaluation
Poster submitter	Ms Anne-Mari KARJALAINEN
Organization	ECHA, Finland
Authors	Anne-Mari KARJALAINEN, Francesca PELLIZZATO

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Summary: REACH Regulatory Framework for Sediment Risk Assessment under dossier evaluation The poster provides the REACH regulatory context for sediment risk assessment under dossier evaluation. The REACH information requirements are presented together with information given in ECHA Guidance for sediment risk assessment. According to ECHA Guidance substances that are potentially capable of depositing on or sorbing to sediments to a significant extent have to be assessed for toxicity to sediment-dwelling organisms. For such substances uptake from sediment or food may be more important than uptake from water. Consequently toxic effects may be exerted in sediment studies even if in a water study no effects were seen, possibly as no equilibrium was reached. In addition, sediments integrate the effects of surface water contamination over time and space and may thus present a hazard to aquatic communities (both pelagic and benthic), also via the food chain, not directly predictable from concentrations in the water column alone. Finally, the derivation of Predicted No Effect Concentration for sediments (PNEC_{sed}) through an integrated testing strategy for toxicity to sediment organisms and its residual uncertainty is illustrated.