LRI 20 Long-Range Research Initiative | cefic

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20TH ANNUAL CEFIC-LRI WORKSHOP

20 YEARS OF LRI: KEY ADVANCEMENTS IN RISK ASSESSMENT

Improved aquatic Testing and Assessment of cationic Polymers (iTAP) ECO-46

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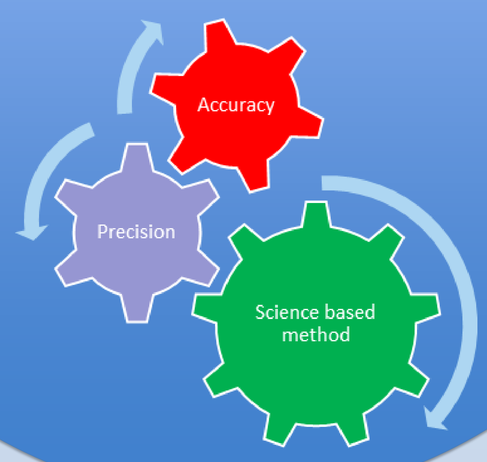
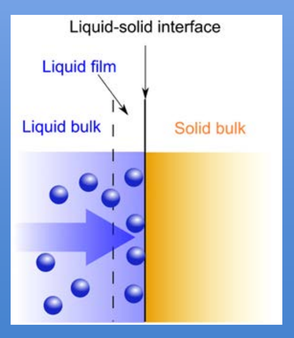
Objectives

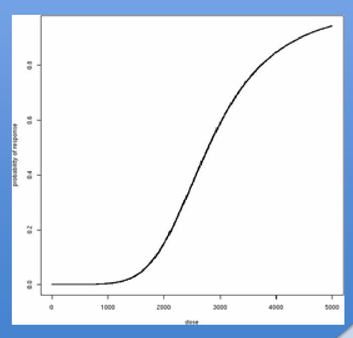
The overall aim of the iTAP project is to support the science-based development of methods to allow accurate and precise aquatic environmental risk assessment of cationic polymers by further developing the ECETOC bulk approach



Challenges

Special known polymer properties needs to be considered *a priori* in the risk analysis. How to optimize relevance and realism of the aquatic exposure and toxicity testing of large and sorptive materials?





Methods

Review 

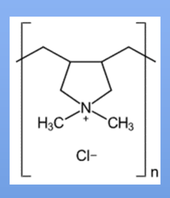
Chemical analysis 

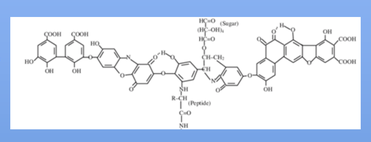
Toxicity test and model 

Exposure and risk modelling 

Results

Most relevant cationic polymers: polyquaterniums (PQ-6; PQ-7; PQ-10; PQ-16). Testing in different water types hardness and humic acid.



+ 

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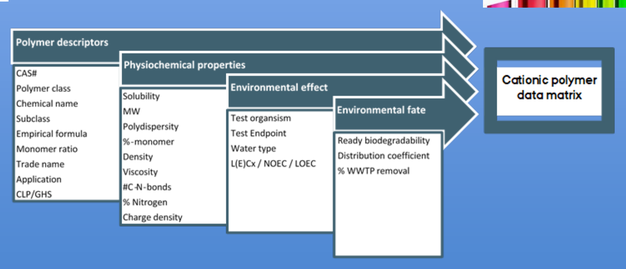

Initial screening → prioritization

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