

# **Pulse exposure scenarios with *Lemna* sp. and *Daphnia magna* in dependence on the EFSA guidance document on tiered risk assessment**

CLAUDIA ZAWADSKY<sup>1</sup>, SILKE FALK<sup>1</sup>, GUIDO GONSIOR<sup>1</sup>, NATHALIE SCHWALBACH<sup>1</sup>

<sup>1</sup> Eurofins Agrosience Services EcoChem GmbH, Aquatic Toxicology Eutingen Str. 24 75223 Niefern-Öschelbronn  
ClaudiaZawadsky@eurofins.com

The EFSA (European Food Safety Authority) has set a focus on tiered acute and chronic effect assessment schemes for aquatic organisms in their latest guidance document (EFSA Journal 2013;11(7):3290). Pulse exposure scenarios are named to be realistic to worst case compared with the predicted field exposure profile. The number and spacing of pulses (toxicological (in)dependence of repeated pulse) is therefore of high importance for an appropriate risk assessment.

Pulse exposure studies with macrophytes (OECD 221: *Lemna* sp. Growth Inhibition Test and OECD 239: Water-sediment *Myriophyllum spicatum* Toxicity Test) and invertebrates (OECD 211: *Daphnia magna* Reproduction Test) were performed. Data are presented with the focus on test design and performance.