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Lethal and sublethal toxicity of abamectin and difenoconazole (individually and in mixture) to early life stages of zebrafish

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1 Lethal and sublethal toxicity of abamectin and difenoconazole (individually and in 2 mixture) to early life stages of zebrafish 3 Ana Letícia Madeira Sanches¹, Michiel Adriaan Daam², Emanuela Cristina Freitas¹, Aline 4 5 Andrade Godoy³, Gabriela Meireles⁴, Ana Rita Almeida⁵, Inês Domingues⁵, Evaldo Luiz Gaeta 6 Espíndola1 7 8 ¹ NEEA/CRHEA/SHS, São Carlos Engineering School, University of São Paulo, Av. 9 Trabalhador São Carlense, 400, 13.560-970 São Carlos, Brazil 10 11 ² CENSE, Department of Environmental Sciences and Engineering, Faculty of Sciences and 12 Technology, New University of Lisbon, Quinta da Torre, 2829-516 Caparica, Portugal 13 14 ³ Department of Clinical and Toxicological Analysis, Faculty of Pharmaceutical Sciences, 15 University of São Paulo, São Paulo, Brazil 16 17 ⁴ School of Pharmaceutical Sciences of Ribeirão Preto, University of São Paulo, 14040-903, 18 Ribeirão Preto, São Paulo, Brazil 19 20 ⁵ Department of Biology and CESAM, University of Aveiro, Campus Universitário de Santiago, 21 3810-193, Aveiro, Portugal 22 23 * Corresponding author: 24 Ana Letícia Madeira Sanches 25 NEEA/CRHEA/SHS, São Carlos Engineering School, University of São Paulo, Av. Trabalhador 26 São Carlense, 400, CEP 13.560-970 São Carlos, SP, Brazil 27 e-mail: analeticiamsanches@gmail.com

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