DROPLET changes: version 1.4.2 with respect to version 1.3.2 July 2025

Main change:

DROPLET 1.4.2 has corrected the error of the DROPLET 1.3.2 version released in April 2023 via the www.pesticidemodels.eu website, considering the Arrhenius activation energy. DROPLET 1.4.2 now multiplies the value of 65.4 (i.e. in kJ/mol, read from SPIN) by a factor of 1000 and next, feeds the correct value of 65400 J/mol for the molar Arrhenius activation energy for transformation in water and sediment (J/mol) into the input file CompoundProperties.inp of the DROPLET_CalcPEC.exe Fortran program. This Fortran program calculates the PEC_Tier1 for the nine drinking water abstraction points from surface water.

Other changes:

- DROPLET 1.4.2 has been prepared and tested for the operating system Windows 11.
- DROPLET 1.4.2 can communicate with either SPIN 3.3 or SPIN 4.4.
- In the 'Wizard' the selection of SWASH projects is improved. Only non-FOCUS TOXSWA projects containing a D3 scenario are selected. This means that only SWASH projects copied in TOXSWA (containing a D3 scenario, but linked to an application scheme with the correct Dutch drift deposition in the TOXSWA shell) can be selected.
- The location of the SWASH database is read from the registry setting (and not anymore from an ini-file, as was done in version 1.3.2).
- Some small textual corrections.
- Memory leaks were fixed.
- In the 'Overview of DROPLET projects', a button labelled 'Explore project directory' was added to help users browse project files.