TOXSWA 1.2a Read_me

Date: September 2025

The TOXSWA executable version 1.2a replaces the version 1.2. Version 1.2a is compatible with Windows11 (note that the new exe in the zip file also has the name TOXSWA_12.exe). This read_me file provides instructions for replacing the TOXSWA kernel. In addition information is repeated on how to change the erroneous default values for the reference concentrations at which the Freundlich coefficient for sorption has been estimated.

Replacement of TOXSWA kernel

This is not a full new installation of TOXSWA 1.2, but only a replacement of the TOXSWA kernel. It is assumed that TOXSWA has already been installed on your computer. Go to the folder C:\TOXSWA. Remove TOXSWA_12.exe, and replace it by the TOXSWA_12.exe of the ZIP file. It can be checked whether the replacement has been done correctly by checking that the date of the executable is of 2025.

Comparison of PECs calculated by this version with the ones calculated by TOXSWA 1.2 from 1999 showed that in a few cases a difference may occur in the last decimal.

Changing parameters for TOXSWA v1.2

See also Newsletter February 2023 | News | Board for the Authorisation of Plant Protection Products and Biocides

In the TOXSWA User Interface incorrect values are implemented as defaults for the reference concentrations at which the Freundlich coefficient for sorption has been estimated. The values of 1 µg/L should be replaced by 1 mg/L as, generally speaking, these are the concentration values located in the centre of the concentration range for which the sorption isotherm has been established.

There are two options to ensure that the correct values are used when new substances are created.
1. When the button "New" is used and "SaveAs".
   - The default values of the reference concentrations of any new substance are 0.001 mg/L.
   - Change these values to 1 mg/L and save them via "SaveAs e.g. NewDefaultPesticide."
   - Next time this NewDefaultPesticide can be selected and the correct values of the reference concentrations are retrieved.
2. When the example substance Cpf (Chlorpyrifos) is used by "Select" and "SaveAs".
   - Change the values of the reference concentrations for the example substance cpf from 1 µg/L into 1 mg/L and press "Save". Now the example substance Cpf has the correct values.
   - Next time Cpf is selected the correct values of the reference concentrations are retrieved.

Help

If you encounter problems using TOXSWA 1.2, please send an e-mail to toxswa-swash@wur.nl

More information about TOXSWA is available at the TOXSWA website: www.pesticidemodels.eu/toxswa