

Workshop IndusChemFate

Training and working with the PBTK-model IndusChemFate for the estimation of blood and urine levels after inhalation, dermal exposure and/or oral intake

Date: 11 november 2010

Location: Studiecentrum Soeterbeeck in Ravenstein (NL)

The PBTK-model IndusChemFate

Inhalation oral intake and dermal exposure of a chemical may lead to uptake in the body. A PBTK- (Physiologically Based Toxicokinetic) model can estimate the level of a chemical in body tissues and body fluids following inhalation, dermal exposure and/or oral intake. Generic PBTK-models contain algorithms as QSPRs (= Quantitative Structure-Property Relationships) for blood:air and tissue:blood partitioning. That is why such a PBTK model can be used even when experimental partition characteristics of a compound are lacking. **IndusChemFate** is a newly developed generic PBTK model for multiple (data-poor) chemicals. It is a *first tier* or screening tool that requires a minimum of input data. It allows to estimate concentrations in body fluids equal to airborne limit values. In addition, route to route extrapolation can be modeled. The software is available as a freeware application in Microsoft Excel. The software application and the user manual can be downloaded from the site: www.cefic-lri.org/lri-toolbox/induschemfate

Program of the workshop

10: 00	Opening
10:00 - 11:00	Lay-out of the generic PBTK model
11:00 - 12:00	Instructions for use of the Excel software program
12:30	Lunch
13:30 – 15:45	Do-it-yourself. Exercises with PBTK modeling of inhalation and dermal exposure; Comparing of published experimental data with model simulations
15:45	Evaluation of the generic PBPK model
16:00	Closing

The workshop will cover:

- Explanation of the Generic PBPK Tool: IndusChemFate
- Demonstration of calculation and visualization of body tissue and fluids concentrations after inhalation, dermal exposure and/or oral intake with the software application in MS-Excel
- Training in real life application of IndusChemFate for workers exposures

Trainers

- **Dr. Wil ten Berge** - a toxicologist with over 30 years experience in modelling and toxicology.
- **Dr. Frans Jongeneelen** – a occupational hygienist/toxicologist with 25 years of experience in biomonitoring and chemical risk assessment.

Target group

- Industrial professionals responsible for conducting or evaluating risk assessments on consumer and occupational exposure to chemicals
- Chemical risk assessors
- Toxicologists interested in physiologically based pharmacokinetic modelling

Workshop Fee

A fee of € 150,- excl. VAT (BTW) is needed to cover the direct costs. The fee includes: administration costs, lunch, drinks and workshop handouts.

Registration

Complete the [registration form](http://www.industox.nl/Registration%20IndusChemFate2010.doc) ([http://www.industox.nl/Registration IndusChemFate2010.doc](http://www.industox.nl/Registration%20IndusChemFate2010.doc)). Mail form to workshop@industox.nl. You will receive a confirmation and invoice. Maximal 30 participants are accepted.

More information



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