

EMKG Expo Tool 2014 – New and improved user friendly version

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The EMKG Expo Tool is a tool to assess inhalation worker exposure which is intended to be used in the context of REACH and also described in REACH guidance R14. At present it is available in form of an Excel spreadsheet on the internet platform of the German national REACH helpdesk,

The revised and improved software version of the EMKG Expo Tool was developed for reasons of better instructions for the user carrying out exposure assessments. The new version is expected to be a user friendly version for small and medium enterprises (SMEs). This is realized in terms of a comprehensive user guide, built-in help features and an interactive user interface.

The possibility of data transfer of user-specific data from IUCLID is a new feature provided in the revised tool. Also new is the possibility of calculating the risk characterisation ratio to demonstrate a safe use for an exposure scenario by comparison of the calculated exposure value with the DNEL.

The newly developed software has the ability to produce and output a result report and an internal documentation of the exposure estimates. In this way exposure determinants of a company or process can be used for different substances and exposure assessments, respectively. Due to this implementation exposure assessments will be significantly easier for users.

Within the EMKG Expo Tool the control strategy is defined with factors that aim at exposure reduction (general ventilation, local exhaust ventilation, containment). These general control strategies are underpinned by a series of Control Guidance Sheets (CGS) which provide practical examples for common industrial operations such as weighing, mixing and filling. Often these operations can be linked to a process category of the use descriptor system. The new EMKG Expo Tool realises a connection of these risk management measures to the result of the exposure assessment if the respective control guidance sheets are available. The report does

reflect the possibility of both, individual exposure situations, as well as aggregated results of different exposure situations, e.g. a complete life cycle of a substance.

The poster will present draft- screenshots of the software illustrating the workflow of an exemplary exposure assessment with the revised EMKG Expo Tool.