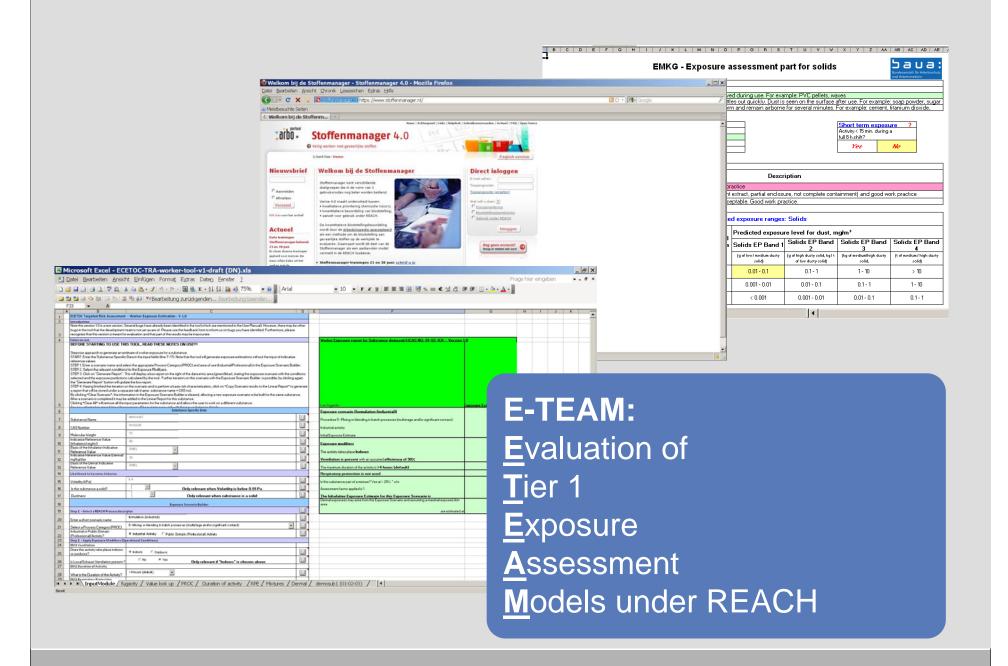
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#### **Motivation behind E-TEAM**

#### **Authorities:**

- Compliance check (dossier and substance evaluation)
- Exposure based waiving
- Authorisation and restriction of substances
- Help desk inquiries

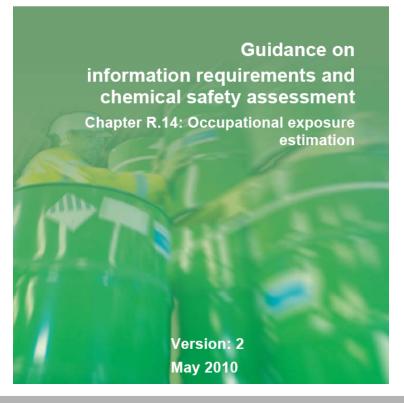
#### **Industry**

 Manufacturers and importers of chemical agents are responsible for risk assessment



#### **Situation:**





- There are three different tier 1 models in the ECHA Guidance (R.14):
  - ⇒ ECETOC TRA incl. MEASE,
  - ⇒ Stoffenmanager
  - ⇒ EMKG-Expo-Tool,
- The models differ in several aspects:
  - ⇒ determinant structure,
  - $\Rightarrow$  areas of application,
  - ⇒ addressed exposure routes,
  - ⇒ status (lack) of validation!

04.07.2011



### **Project Goals:**

- The general objective is to achieve more confidence about the **accuracy, precision**, and **reliability** of model predictions (inhalation and dermal exposure).
- The project will also review the **user friendliness** of the models to identify strenghts and weaknesses in their practical use
- >and will develop practical recommendations.

### Project plan

#### Work Part I: Critical Evaluation of Tier 1 Models

- Gathering of background information and conceptual evaluation
- Evaluation of data sources
- Writing a protocol for gathering and reporting exposure data
- Gathering of exposure data and development of an exposure data base
- Evaluation of gathered data and comparison with model estimates
- Operational analysis (workshop)



### Project plan

Work Part II: Model comparison and development of practical recommendations

- Uncertainty of tier 1 models
- Comparison and suitability of tier 1 models

### **Project Partners / Advisory Board:**

- Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (coordinator)
- Institute for Occupational Safety and Health of the German Social Accident Insurance ("IFA")
- Netherlands Organization for Applied Scientific Research ("TNO")
- Arbo Unie
- Health and Safety Executive ("HSE")
- European Centre for Ecotoxicology and Toxicology of Chemicals ("ECETOC")
- "National Institute for Occupational Safety and Health" ("NIOSH")



### Possibilities for using project results

- Results can help manufacturers and importers improve their exposure assessments
- Results could be used by ECHA to modify the guidance documents on exposure assessment (PEG support)
- Recommendations for improvement and further development of exposure models
- ➤ The results might contribute to a more unified approach for the development of exposure databases



### Summary:

- ➤ Appropriate validation of the Tier 1 models under REACH is still lacking
- ➤ E-TEAM aims to achieve more confidence about the conceptual and external validity of the models
- > E-TEAM will also include an analysis of the user friendliness of the tools
- An international advisory board will be established to provide measurement data and to ensure objectivity
- ➤ E-TEAM aims to arrive at recommendations for improvement and further development of exposure models



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