

Background document for ENES 7

CSR/ES Roadmap action 2.3: Connecting existing risk management measure packages for worker exposure to REACH CSA

BAuA project: How to build a link between existing risk management advice and REACH exposure scenarios?

Efficient design and communication of risk management measures (RMM) is of high importance as well with regard to REACH as on behalf of occupational safety. This can be facilitated by linking the chemical safety assessment (CSR) under REACH with existing guidelines for the safe use of hazardous substances.

Within the „CSR/ES Roadmap“ BAuA (Federal Institute for Occupational Safety and Health) has committed itself to investigate how existing packages of RMM can facilitate the link between REACH exposure scenarios and occupational safety and health. Risk management information specific to branches, activities as well as processes has been identified in order to determine how it can serve as a basis for the development of exposure scenarios.

The consultant „chromgruen“ has been commissioned by BAuA to support this task by the following approach:

- Phase 1 Research and structural characterization of relevant guidance systems
- Phase 2 Systematic content analysis of selected guidance documents
- Phase 3 Matching measures of guidance documents to exposure scenarios

In Phase 1 the following guidance systems were examined:

- BAuA Control Guidance Sheets, COSHH Essentials Guidance Sheet, ILO Guidance Sheets, Guidelines of government safety organisations, e.g., GISBAU, Branch guidelines, Generic exposure scenarios of European industry organisations, e.g., European Solvents Industry Group, AISE, Process and substance specific criteria (VSK) according to Technical Rule for Hazardous Substance 420 (TRGS 420)
- Structural characterization was based on the following categories, for which detailed evaluation criteria were designed:
provenance, availability, field of application, volume, structure, liability, relevance of exposure, availability of support

In Phase 2 a content analysis was carried out. It was analysed whether and how the guidance systems make use of parameters which are typically used in exposure models. Parameters were selected according to the results of the BAuA eteam project:

- if individual guidances are specified for single substances or groups of substances,
- if the effect, e.g. of dilution, short time peak exposure, duration of process/task, process temperature on RMM is taken into account,
- if tasks are identified by use descriptors (PROC).

The results are documented in tabular form.

Until now more than 700 guidance documents have been assessed with regard to their structural characteristics.

First ideas for phase 3 are developed.