





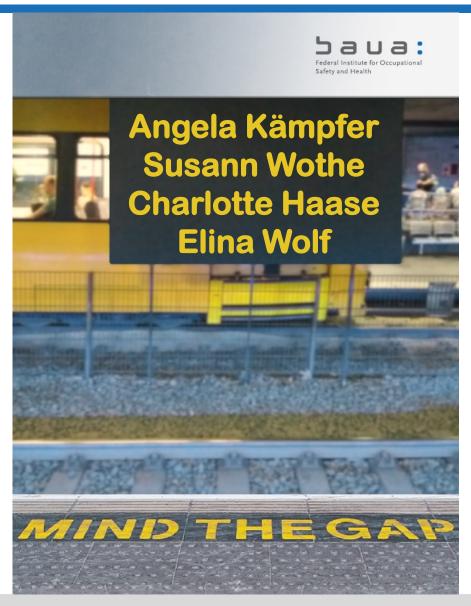
The REACh2SDS Project

Nicoletta Godas



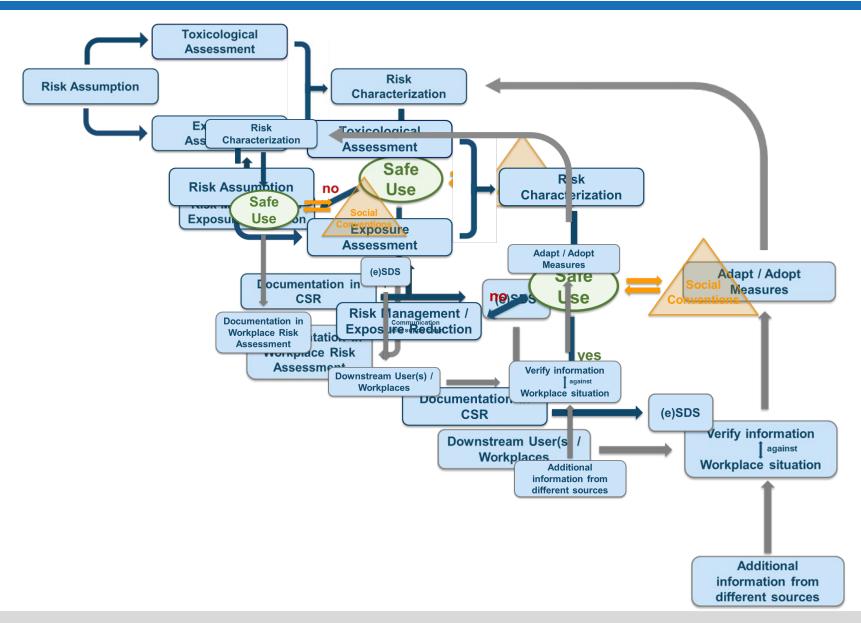
Federal Institute for Occupational Safety and Health

Project Team



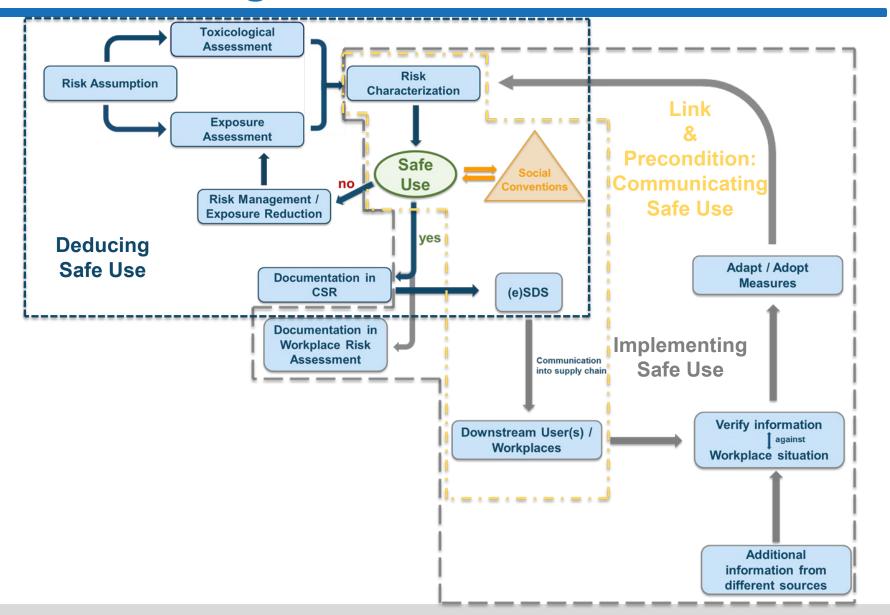


Risk management: REACH & OSH



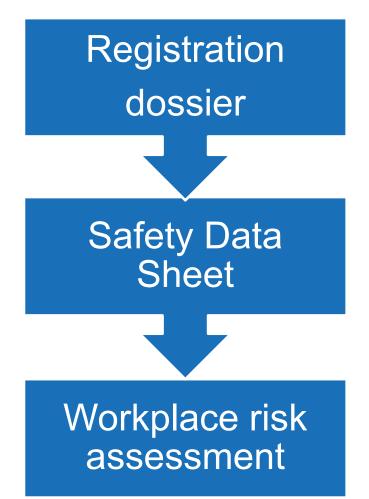


Risk management: REACH & OSH





REACh2SDS



Data availability, workplace exposure, risk management measures

Quality of information transfer

Usability for workplace risk assessment

https://www.baua.de/reach2SDS-en



REACh2SDS → Research Project

REACh2SDS:

REACH Exposure Assessment of Chemicals to Safety Data Sheets

Identifying problem areas

#

Compliance Check

or

Enforcement Activity



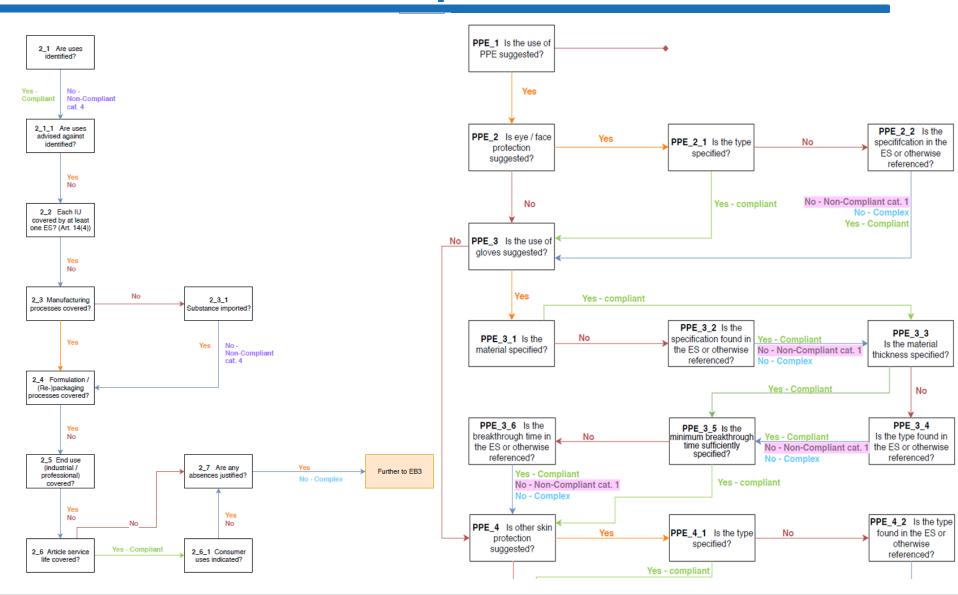
Registration Dossier Analysis

Analysis of data availability of exposure and use related information:

- planned 1690 Lead-Dossiers for chemicals of the 100 – 1 000 tpa band
- definition of relevant markers
- development of decision trees

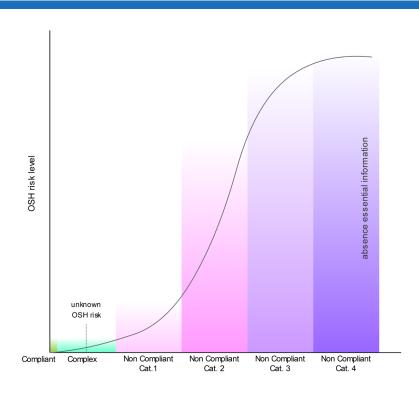


Decision Tree Examples

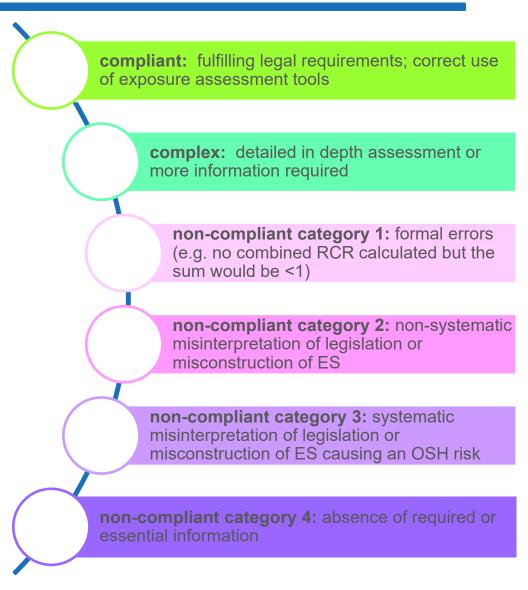




Banding Approach for decision tree evaluation



→ Depending on the severity of the information gap for safety at work





→ ~ 600 completed analyses significant quality differences between CSRs

missing information:

- personal protective equipment
- lack of information on the manufacturing process for non-imported substances
- CSR



Critical observations:

- stretching model limitations
- models used: so far only Tier1
- use of inappropriate reduction factors
- discrepancies between process and RMMs

Comparison of data availability & quality between registration dossier and eSDS

1907/2006 Art. 31(2):

"Any actor in the supply chain who is required, under Articles 14 or 37, to carry out a chemical safety assessment for a substance shall ensure that the **information** in the safety data sheet **is consistent** with the information in this assessment."



Safety Data Sheet (SDS)

The communication tool in the chemical supply chain!

enables the employer to determine:

- are there hazardous substances at the workplace?
- are there risks?
- serve as a basis for assessing risks

enables the user:

to implement necessary protective measures



REACH Regulation: Annex II



Extended Safety Data Sheet (eSDS)

SDS + annexed Exposure Scenarios (ES) = eSDS

Exposure Scenarios:

part of the Chemical Safety Report (CSR)

Set of:

Operational conditions & Risk Management Measures that describe how the substance is manufactured or used during its life-cycle

- → Safe Use
- → Controlled Risk

Art. 3 No. 37 REACH-Regulation



Comparison of data availability & quality between registration dossier and eSDS

- definition of relevant eSDS-related markers
 - classification
 - use advised against
 - RMM
 - PPE details
 - . . .



- → eSDS required
- questionnaire designed to maximize query value



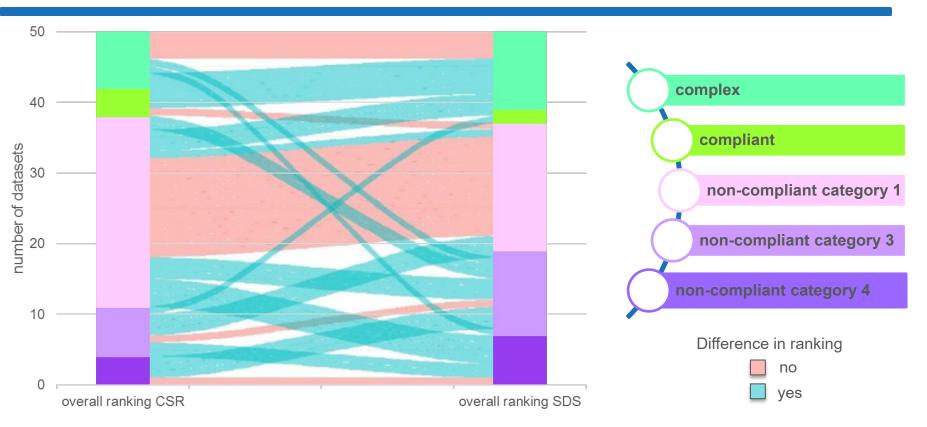
300 eSDS planned for representative statement

received: ~ 200 eSDS

- half out of scope
- lead registrants hesitant to share the eSDS
- additional SDS acquisition
- current status eSDS: ~ 160 evaluable



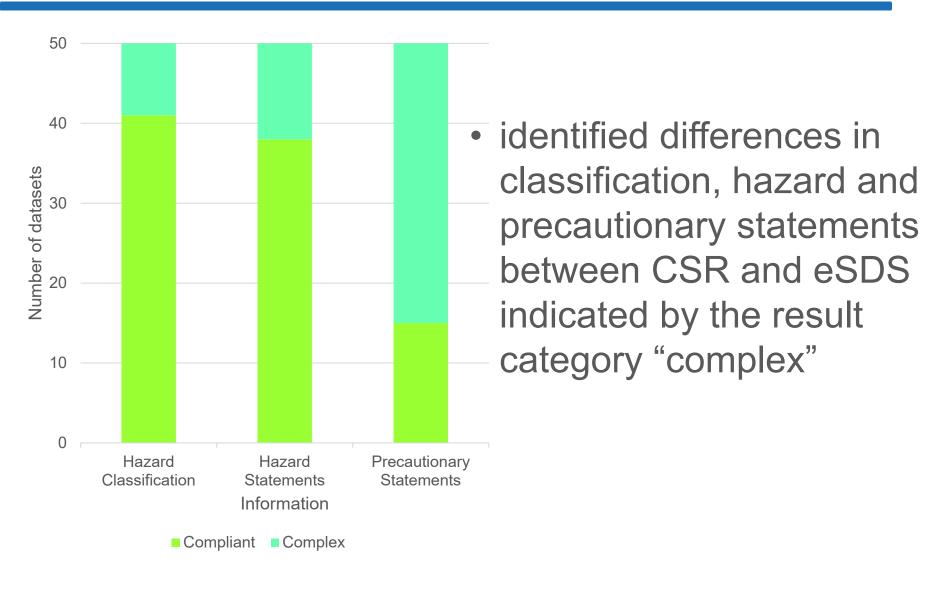
Differences in data availability & quality between CSR and eSDS of 50 datasets



- lack of PPE information
- issues with RCR calculation, e.g. RCR >1 or national OEL not considered in eSDS



Consistency of classification & labelling





Consistency of PPE information

 availibility on PPE information in (e)SDS was provided at a higher percentage compared to CSRs

 a common issue are information on glove thickness and their breakthrough time



Questionnaire

- 1. Introduction: Role under REACH
- 2. Development of the eSDS: Which tools and information are used, who is responsible?
- 3. Communication: use for internal company risk assessment, how will the eSDS and changes be communicated to downstream users?



Questionnaire

- 4. Quality management: eSDS quality and completeness checked? Consistency check with CSR?
- **5. Personal Views**: impact of eSDS, creation effort, usefullness for downstream user
- 6. Personal Views: changes that may improve ES / eSDS
- 7. Information about the company: number of employees, country



Majority of respondents:

- considers the creation and communication of eSDS to be useful
- does not use other tools for risk communication with downstream users



does not consider the eSDS <u>suitable as a source of information for workplace risk assessment</u>



but:

- uses results from the internal workplace risk assessment for CSR creation
- even more use the eSDS internally to communicate risk and RMM



Free text fields:

Suggestions for improvement of eSDS format

- increasing harmonisation; mandatory format
- shorter; important information in the main part of the SDS
- less scientific; better applicable for different levels of education



Comparison of eSDS & CSR information in the context of workplace risk assessment

 consistency check of RMMs communicated via the eSDS using the EMKG



EMKG Workplace & Chemicals:

- tool for workplace risk assessment
- combines easily accessible parameters from SDS and site inspections and suggests appropriate measures → Control Guidance Sheets
- enables the determination of an appropriate control strategy for contact with hazardous substances via:
 - inhalation
 - skin contact
 - fire and explosion



Comparison EMKG output & ES

Checked if:

- the information provided in the Control Guidance Sheets and RMM matched
- the required RMM were missing or if less/other RMM would have been sufficient

or

 the Control Guidance Sheets and RMM are only consistent up to a certain quantity range

Comparison EMKG output & ES

- ~ 450 ES have been checked
- results show about 50% of RMM from eSDS were inconsistent with the recommended protective measures from EMKG
- inconsistencies may effect risk assessment of the employers
- complicates the employer's duty to implement appropriate measures to protect employees



Workshop

- part of the research project
- discuss identified challenges
- set a starting point for solutions







Summary REACh2SDS

REACh2SDS evaluates:

- the data availability on workplace exposure, use and on RMM for registered substances
- how this data is communicated in the supply chain via eSDS
- how this data can be used for workplace risk assessment



Thought starter



- Is the information you receive via the supply chain sufficient for you to work with?
- Does the information you feed into the supply chain meet your own expectations?

Contact

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