

Preparing good quality CSAVES – SPERCs

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3rd Meeting of the Exchange Network on Exposure Scenarios (ENES 3), 20/21-11-2012, Brussels



REACH Implementation Project 3.2

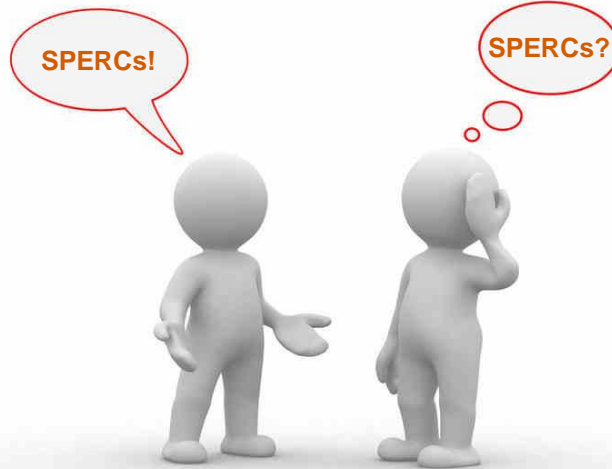


November 2008 – Environmental Release Classes

- Emissions from all uses reflected in 12 Environmental Release Classes
- Worst case release factors

Industry analysis of ERCs

- Release factors are too conservative to be useful
- ERCs are helpful for grouping uses
- Sector organisations can develop specific release factors based on ERCs



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What is a SPERC?



SPERCs are ...

- **refinements** of the ERC-based emission estimation.
- a **lower tier** element in the environmental risk assessment.
- for industrial uses and define unit point sources with regard to **emission relevant parameters**.
- define **realistic default values** (based on good practice information supplied by sector groups, trade associations).
- are **documented** in **SPERC fact sheets**, deposited in ES library.
- are an element of **standardized supply chain communication** of environmental assessments

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Why are SpERCs useful



Sector-agreed data sets on the conditions of use of chemicals allows industry to...

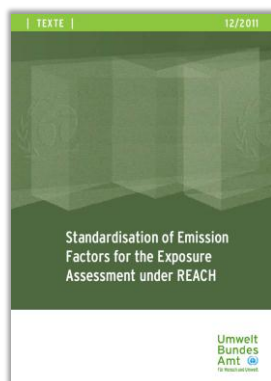
- Perform assessments based on **current practices** as starting point
- Improve **harmonization** and **consistency** among companies assessing same substances
- Downstream users will find back **realistic** risk management measures + **sector jargon**
- **Efficient** preparation of large number of assessments
- Facilitates the integration into **IT systems** and **assessment tools** (ECETOC TRA, easyTRA, Petrorisk, CHESAR)

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Feedback from authority and industry



UBA/Ökopol and industry feedback agree well in many aspects



CEFIC survey among SPERC users

- industry companies
- Consultants

<http://www.umweltdaten.de/publikationen/fpdf-l/4085.pdf>

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SPERC Multistakeholder-Workshop 2011



- SPERCs generally **accepted**
- **Refinement** of the fact sheets
 - SPERC **coverage**
 - Representation of **RMMs** in SPERC **release factors**
 - **Documentation** of rationale for choice of release factors
 - Define **relationship** between operational conditions, risk management and release factors
- Making SPERCs **available** to the stakeholders
- **Harmonized** and structured format
- **Revised Guidance** on derivation of SPERCs
- Promote efficient generation, processing and transfer of SPERC information in/between **IT applications**

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SPERC Quality Criteria (I)



Formal

Clear identification of processes and/or activities covered by a SPERC

Each SPERC should be identified with a unique identifier.

The standard factsheet format developed by CEFIC should be used.

Content

The operational conditions which are typical for the application covered by the SPERCs should be described.

The description of the operational conditions should enable downstream user to judge whether their specific operation is covered by a SPERC.

Release factors to water, air, and soil should be provided.

Where applicable: Clear statement of RMMs prescribed by a SPERC and related efficiency of the RMM.

Where applicable: Specify to off-site waste treatment and waste management.

Citing reference documents which were used in the SPERC derivation

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SPERC Quality Criteria (II)



Rationale

The reasoning applied in the choice of release factors should be reported in the SPERC factsheet.

If release factors are lower than those in the reference documents used for developing the SPERC, a justification should be provided.

If release factors are set to zero, a justification relating to the operational conditions should be provided. If the release factor to soil is set to zero, a standard justification suffices.

Traceability

Industry associations should maintain and update the SPERC factsheets. (all versions of SPERCs should be kept available).

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Poster @ SETAC Milan 2011



21st SETAC EUROPE ANNUAL MEETING
15-19 May 2011 - Milan, Italy



SETAC EUROPE
Milan 2011

SPERCs: Refined Emission Estimation under REACH
Workshop report (2011-06-14, Brussels)
A. Alvarez, N. Kaul, C. Berg, L. Hoekemeyer, F. Schenkler, J. Tabin, V. Tsiapras

Background

- SPERCs: An Introduction**
- SPERCs are appropriate for refining environmental assessments**
- Relevant parameters available for user registration databases**
- Relevant parameters available for user registration databases**
- Relevant parameters available for user registration databases**

Workshop Discussions

- Improving SPERCs**
- Uncertainties: Doping**
- Industry**
- Regulatory databases**
- SPERCs: Refined Emission Estimation**

Workshop Outcome

- Workshop conclusions**
- The Wayforward - Goals**

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Workshop report (published in IEAM)



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Specific Environmental Release Categories—A Tool for Improving Chemical Safety Assessment in the EC—Report of a Multi-Stakeholder Workshop

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(Submitted 16 October 2011; Returned for Revision 5 December 2011; Accepted 21 February 2012)

Brief Communication

ABSTRACT

In April 2011, experts from industry and authorities met for a workshop to discuss experience and future developments regarding the use of specific environmental release categories (SPERCs) in chemicals safety assessment (CSA) under the European Chemicals Regulation Registration, Evaluation and Authorization of Chemicals (REACH). This article provides a summary of the workshop. It briefly explains what a SPERC is, why SPERCs are needed, where the challenges of the concept are, and what improvements are needed to make SPERCs a useful tool for assessments under REACH. Integr Environ Assess Manag 2012;8:580–585. © 2012 SETAC

Keywords: REACH Emission estimation Exposure assessment SPERC Environmental release category

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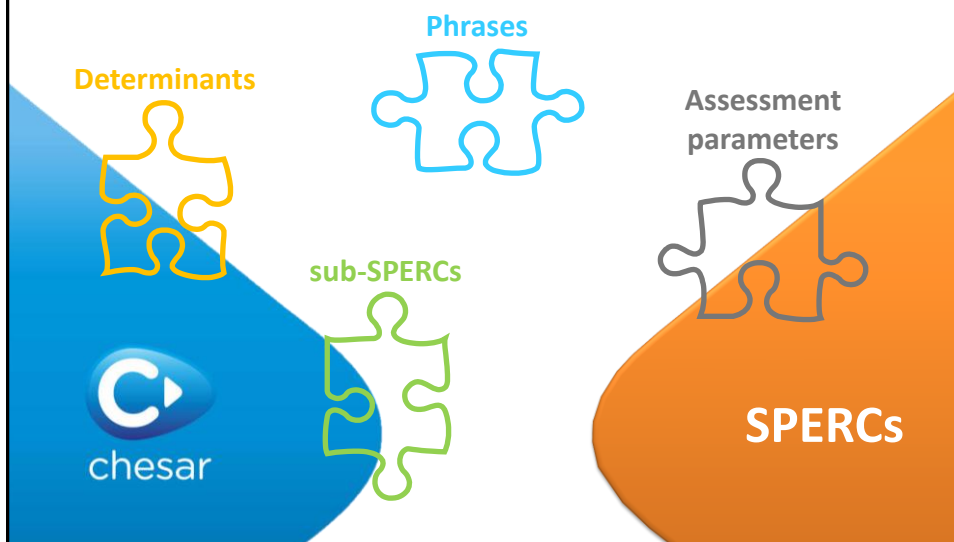
Follow Up of Workshop



- **Revise Template for SPERC documentation**
- Done
- **Review and revise SPERCs (in light of SPERC quality criteria)**
- Done
- **Publish revised SPERC Guidance**
- Done
- **Publish revised SPERC factsheets**
- Done / Ongoing
- **SPERCs & CHESAR ...**

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SPERCs go CHESAR, point of departure

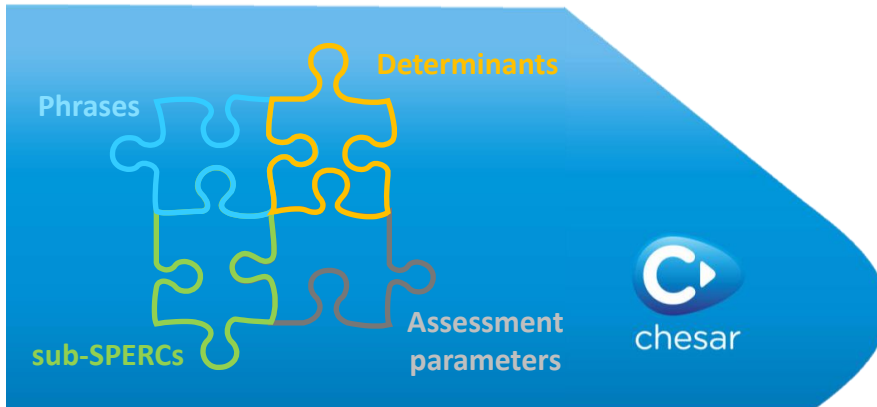


SPERCs and CHESAR



- ECHA and CEFIC SPERC Core Team **cooperated** to provide the possibility to use SPERCs in CHESAR 2
- Both parties invested a significant amount of time in building a **common understanding** of CHESAR determinants
- The presentation of SPERC-content in SPERC-factsheets and in CHESAR determinants is **not congruent**
- The CHESAR determinant structure provides for sufficient **flexibility**
- Sectors **develop** SPERC information into determinants to fit CHESAR data model
- Working with the CHESAR SPERC templates and with draft CSRs was **very helpful**
- CHESAR assessments make use of **realistic** release estimates

SPERCs go CHESAR, status quo

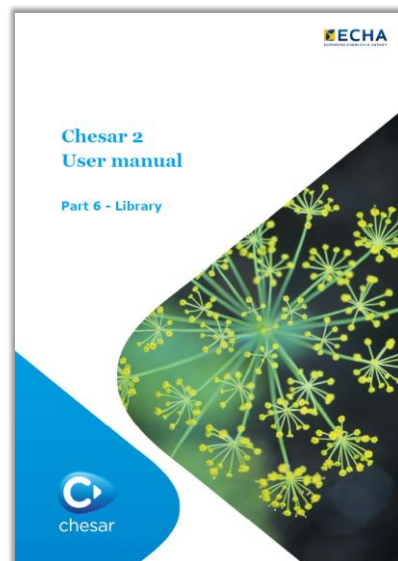


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SPERCs go CHESAR

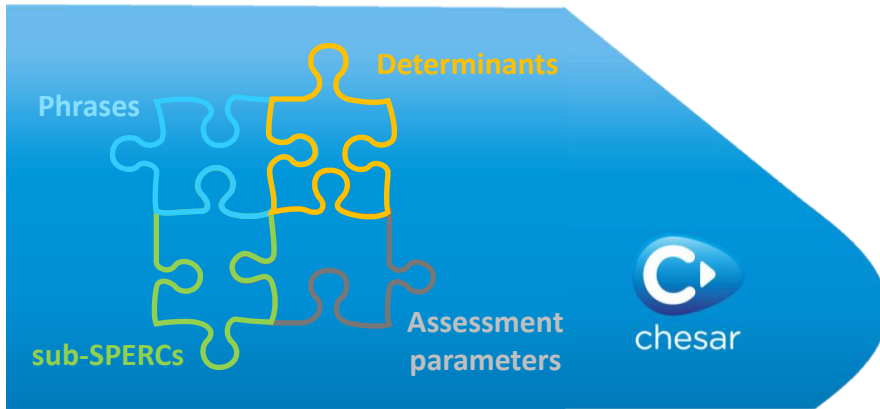


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SPERCs go CHESAR, status quo

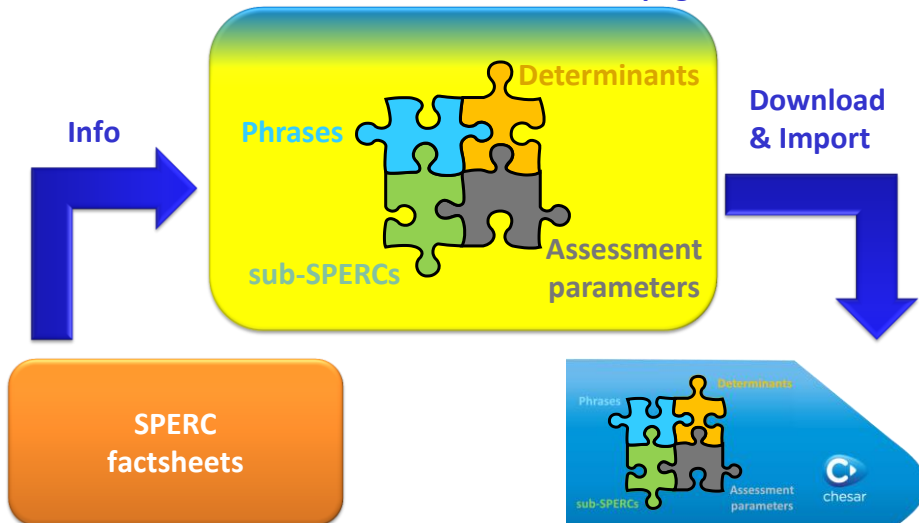


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SPERCs go CHESAR, current activity

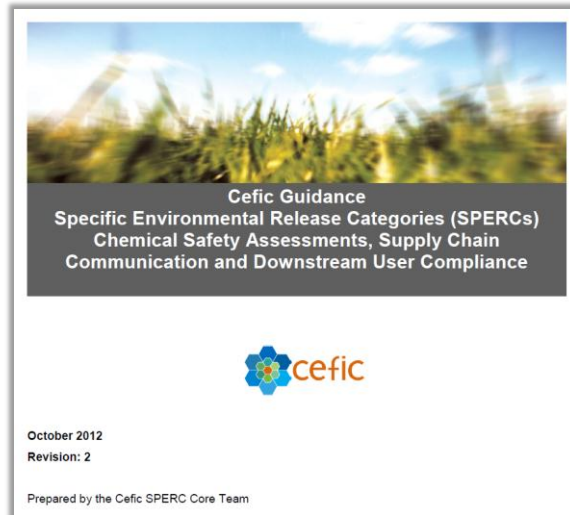


CHESAR SPERC files @sector webpages



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The SPERC-Guidance (rev. 2, Oct 2012)



<http://www.cefic.org/Documents/IndustrySupport/REACH%20Implementation/SPERC%20Guidance.pdf>

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Further follow up



- Sectors to provide **CHESAR SPERC files** on their webpages
- Define tasks & responsibilities for submission of **additional SPERCs**
- **Promote SPERCs** (along with GES and SCEDs) as best practice examples on OECD level
- ...

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THANK YOU FOR YOUR ATTENTION !